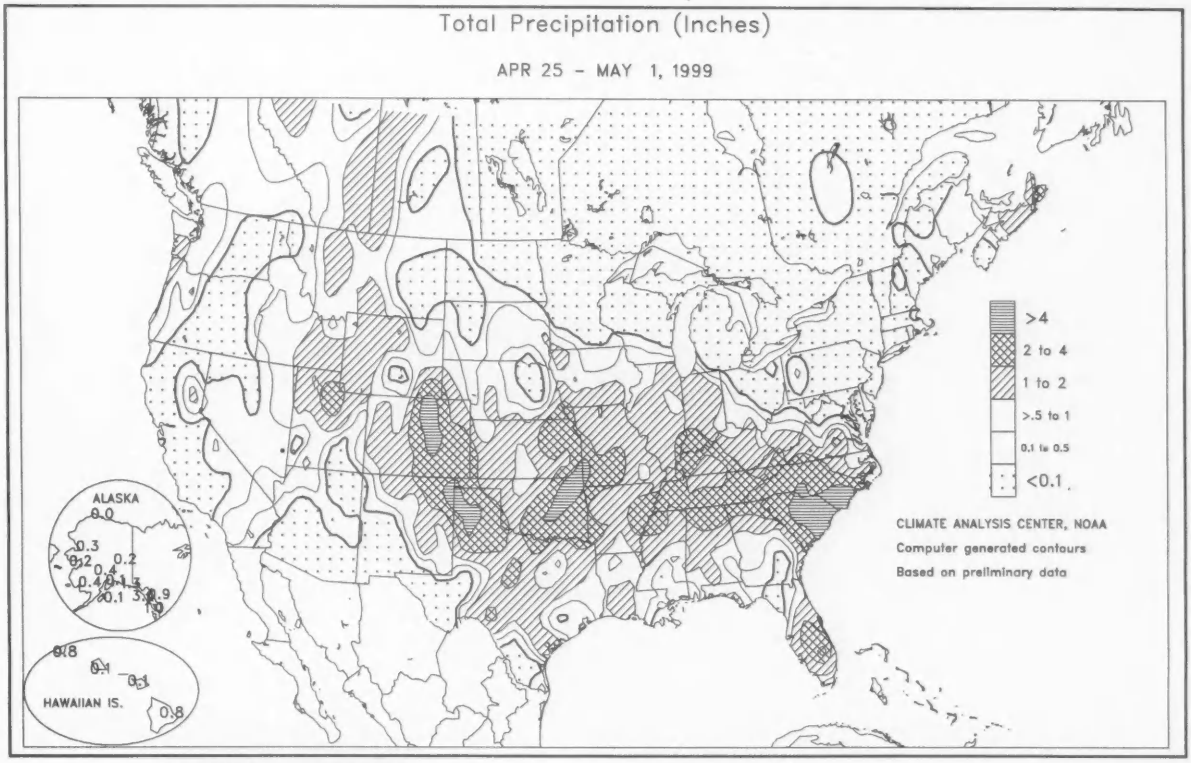
Volume 86, No. 18 May 4, 1999

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



HIGHLIGHTS

April 25 - May 1, 1999

Widespread rain fell from the **central and southern Plains** into the **Southeast**, generally benefiting winter wheat and spring-sown crops, but slowing or halting planting. Excessive totals (more than 4 inches) fell toward week's as slow-moving storms simultaneously affected the **central and southern High Plains** and the **Carolinas**. Farther south, much-needed rain dampened **Peninsular Florida**, improving topsoil moisture and reducing irrigation requirements in citrus groves. Meanwhile, drier weather spread southward across the **Corn Belt**, permitting a gradual return to fieldwork. In **California**, dry weather favored fieldwork, including cotton planting, but a return to cool conditions hindered crop development. Weekly

(Continued on page 5)

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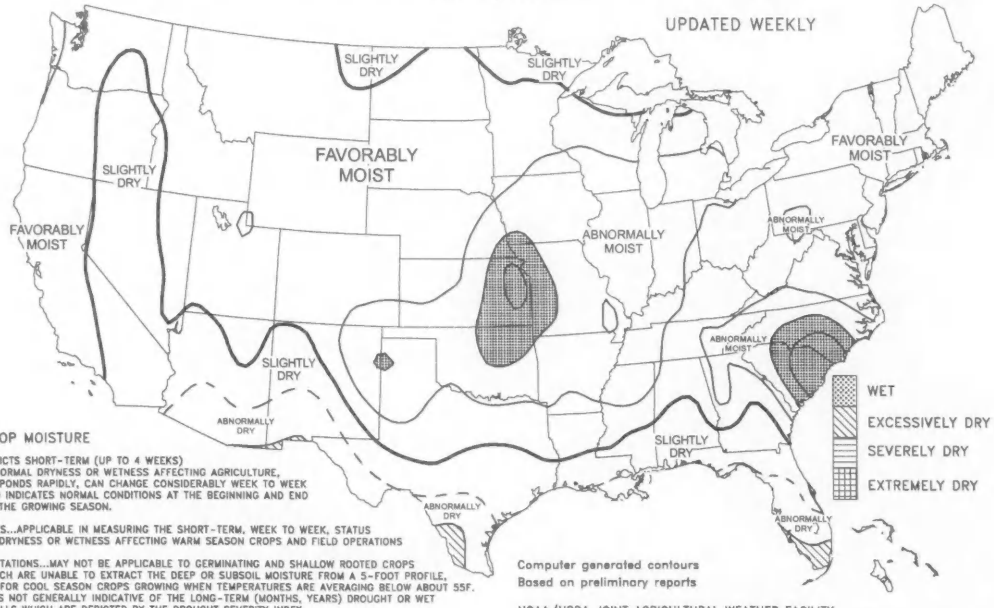
Crop Moisture

SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE

MAY 1, 1999



CROP MOISTURE

DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

USES...APPLICABLE IN MEASURING THE SHORT-TERM, WEEK TO WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS

LIMITATIONS...MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55F. IT IS NOT GENERALLY INDICATIVE OF THE LONG-TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

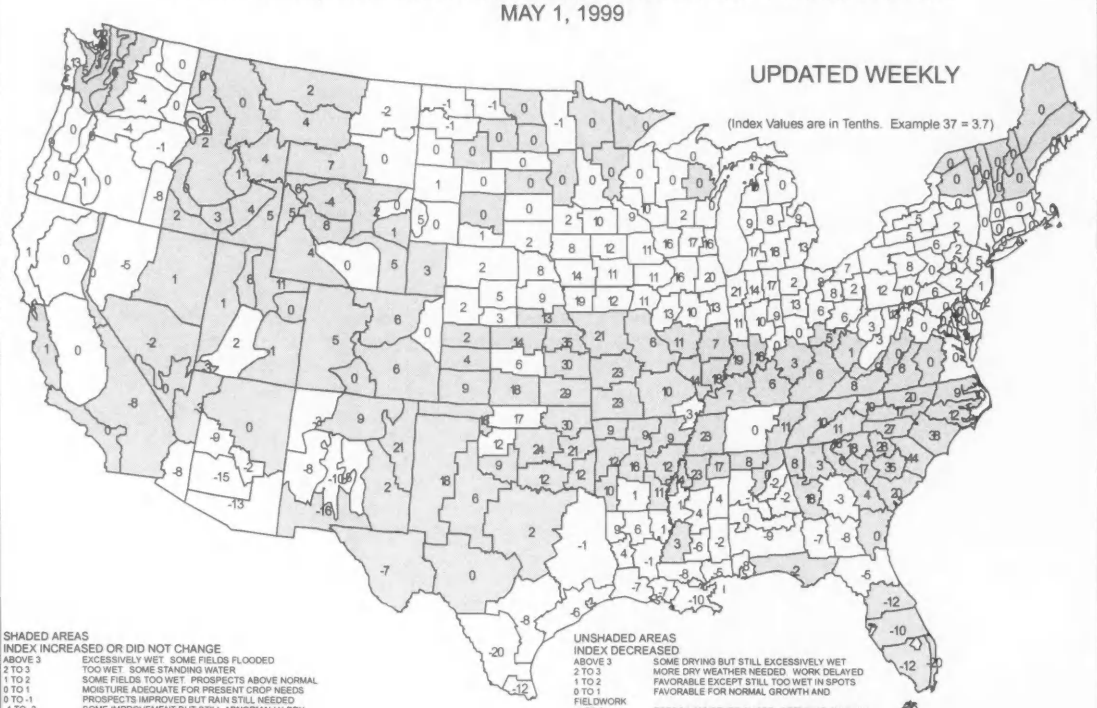
Computer generated contours
Based on preliminary reports

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

Crop Moisture Index

SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5 - FT. SOIL PROFILE

MAY 1, 1999



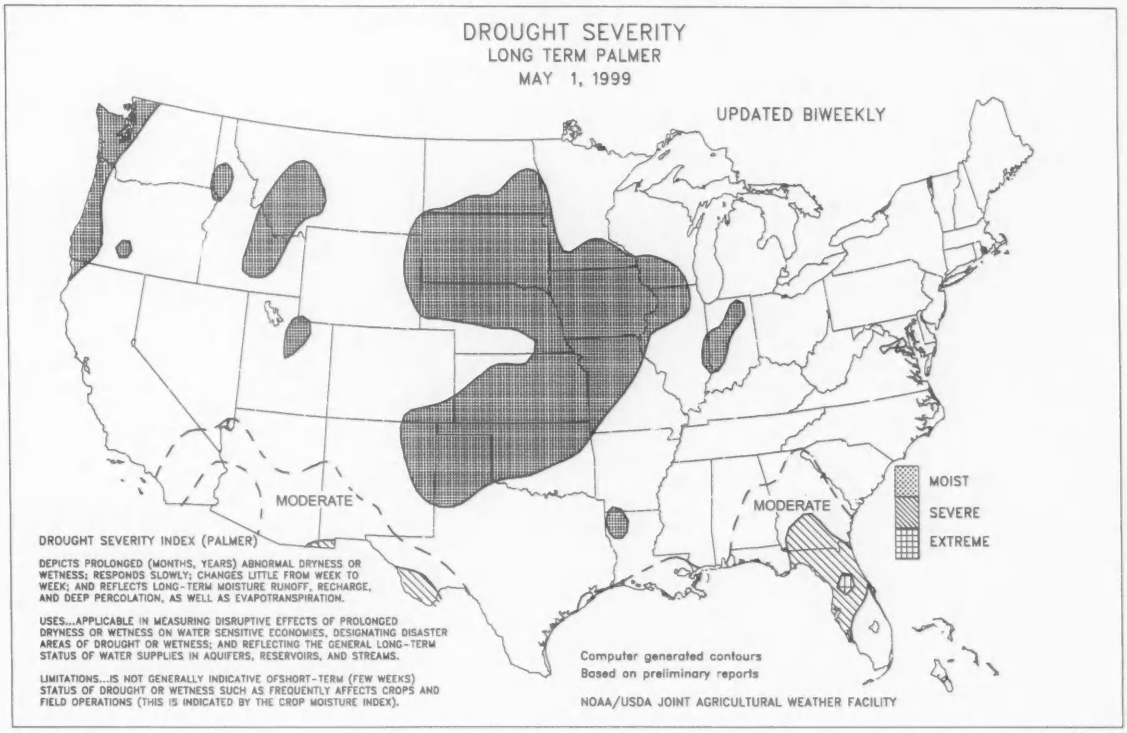
SHADED AREAS
INDEX INCREASED OR DID NOT CHANGE

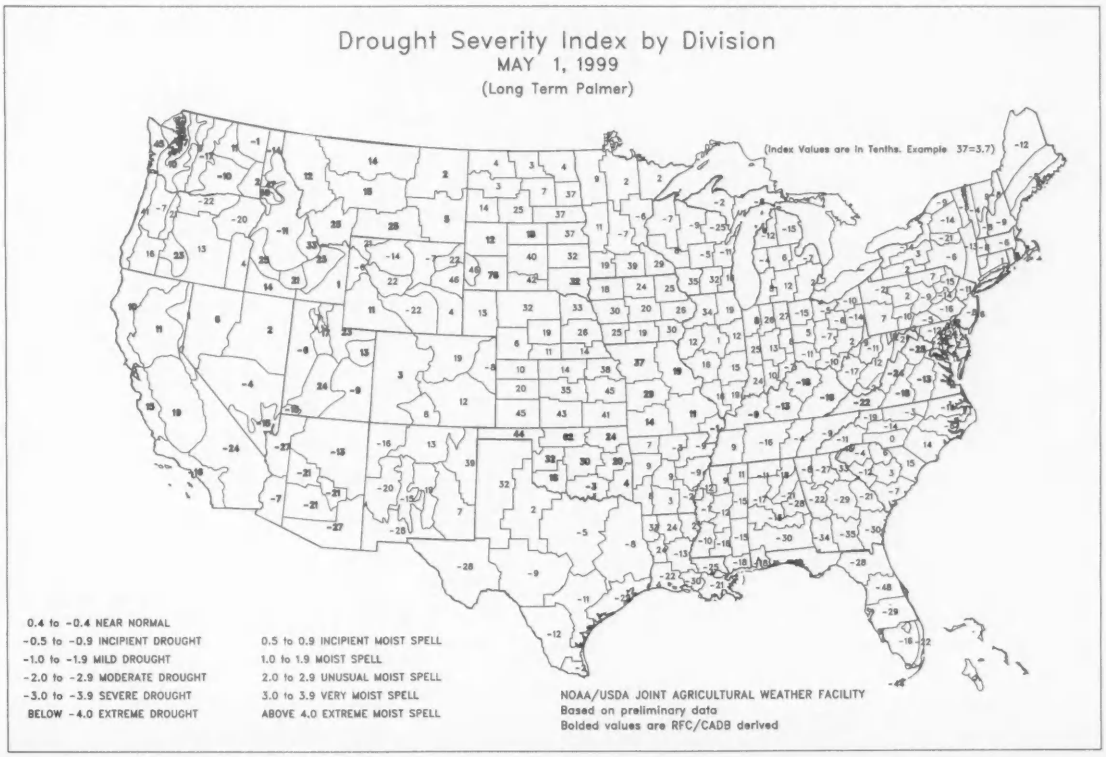
ABOVE 3	EXCESSIVELY WET. SOME FIELDS FLOODED
2 TO 3	TOO WET. SOME STANDING WATER
1 TO 2	SOME FIELDS TOO WET. PROSPECTS ABOVE NORMAL
0 TO 1	MOISTURE ADEQUATE FOR PRESENT CROP NEEDS
0 TO -1	PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2	SOME IMPROVEMENT BUT STILL ABNORMALLY DRY
-2 TO -3	DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY
-3 TO -4	SEVERE DRYNESS CONTINUES. MORE RAIN URGENTLY

UNSHADED AREAS
INDEX DECREASED

ABOVE 3	SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3	MORE DRY WEATHER NEEDED. WORK DELAYED
1 TO 2	FAVORABLE EXCEPT STILL TOO WET IN SPOTS
0 TO 1	FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
-1 TO 0	TOPSOIL MOISTURE SHORT. GERMINATION SLOW
-2 TO -1	ABNORMALLY DRY. PROSPECTS DETERIORATING
-3 TO -2	EXCESSIVELY DRY. YIELD PROSPECTS REDUCED

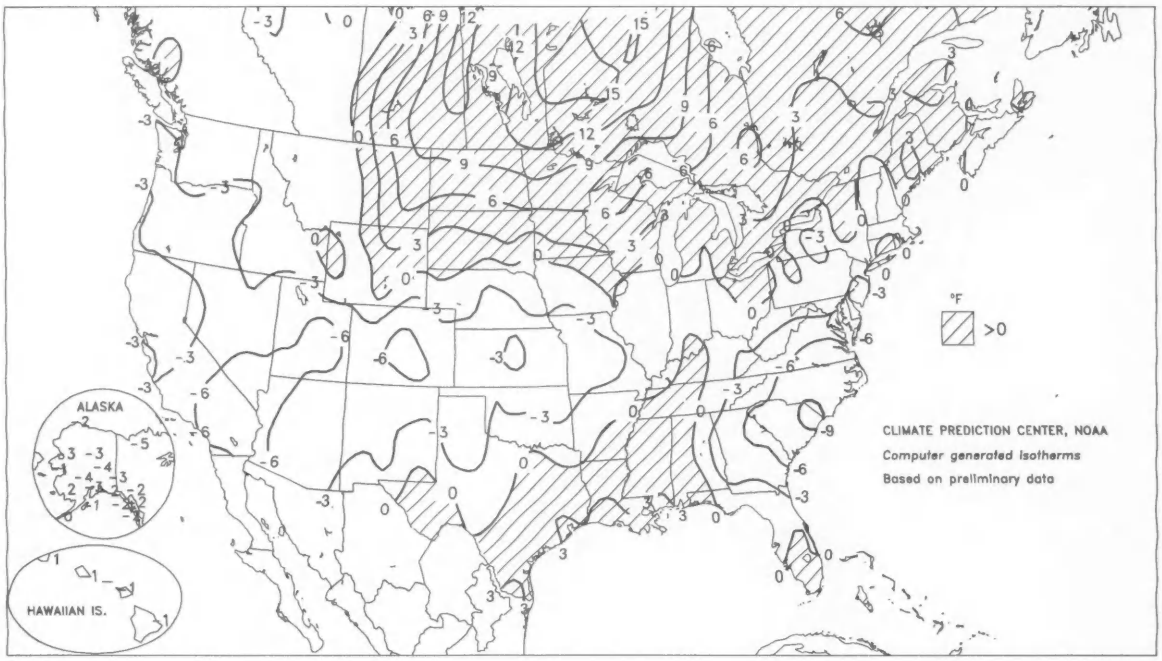
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY Based on preliminary reports

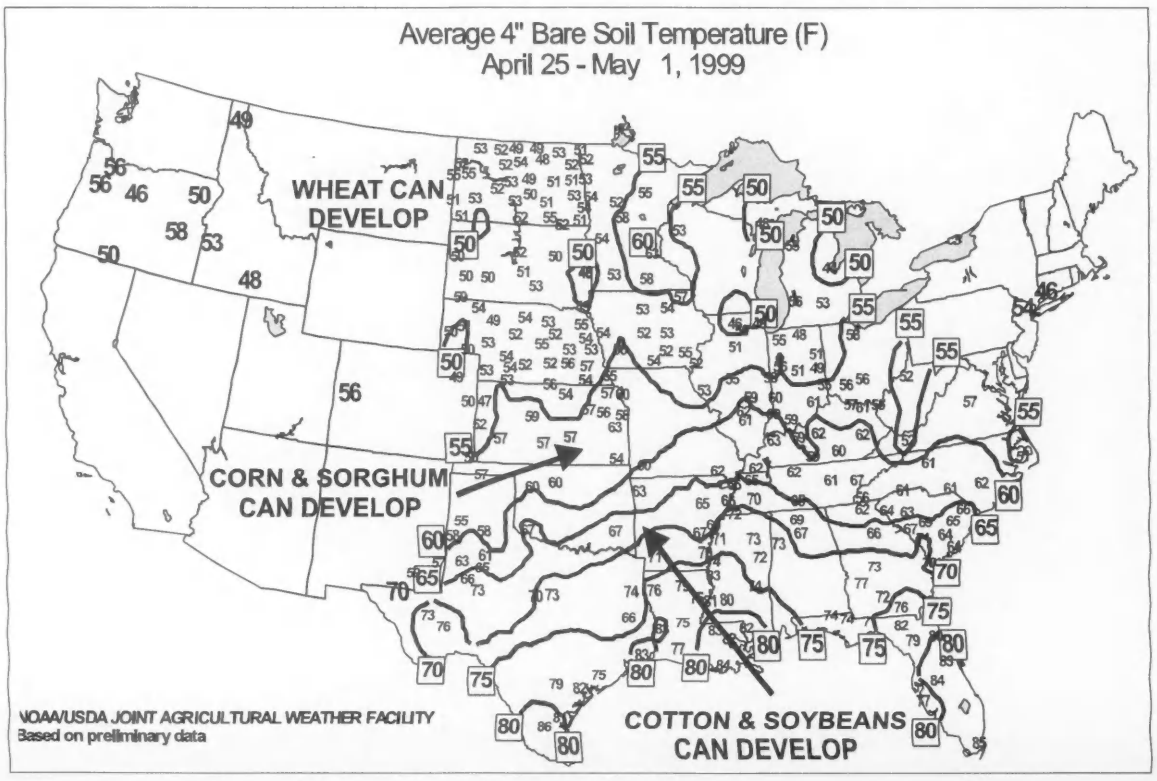

DROUGHT SEVERITY
LONG TERM PALMER
MAY 1, 1999
UPDATED BIWEEKLY
MODERATE
MODERATE
MOIST
SEVERE
EXTREME
DROUGHT SEVERITY INDEX (PALMER)
DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS; RESPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION, AS WELL AS EVAPOTRANSPIRATION.
USES...APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNATING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS, AND STREAMS.
LIMITATIONS...IS NOT GENERALLY INDICATIVE OFSHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).
Computer generated contours
Based on preliminary reports
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


Drought Severity Index by Division
MAY 1, 1999
(Long Term Palmer)
(Index Values are in Tenths. Example 37=3.7)
0.4 to -0.4 NEAR NORMAL
-0.5 to -0.9 INCIPIENT DROUGHT
-1.0 to -1.9 MILD DROUGHT
-2.0 to -2.9 MODERATE DROUGHT
-3.0 to -3.9 SEVERE DROUGHT
BELOW -4.0 EXTREME DROUGHT
0.5 to 0.9 INCIPIENT MOIST SPELL
1.0 to 1.9 MOIST SPELL
2.0 to 2.9 UNUSUAL MOIST SPELL
3.0 to 3.9 VERY MOIST SPELL
ABOVE 4.0 EXTREME MOIST SPELL
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data
Bolded values are RFC/CADB derived

Departure of Average Temperature from Normal (°F)

APR 25 - MAY 1, 1999



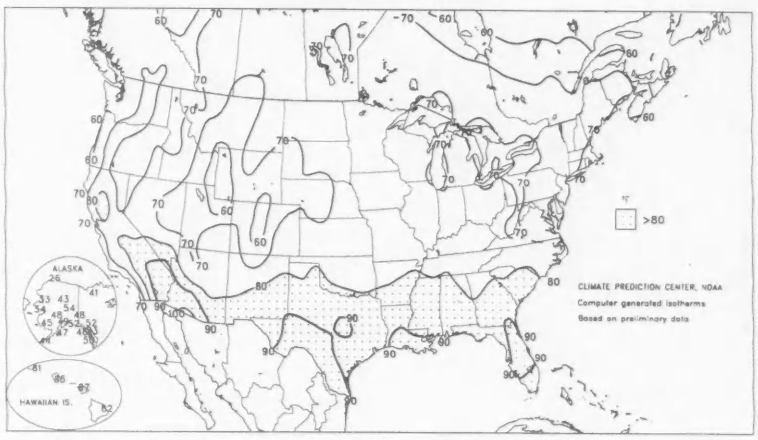

Average 4" Bare Soil Temperature (F)
April 25 - May 1, 1999
WHEAT CAN DEVELOP
CORN & SORGHUM CAN DEVELOP
COTTON & SOYBEANS CAN DEVELOP
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data

(Continued from front cover)

temperatures averaged more than 5°F below normal throughout **southern California** and ranged from 1 to 7°F below normal in the **Northwest** and on the **central and southern Plains**. Cloudy, wet conditions held temperatures as much as 9°F below normal in the **Carolinas**. Farther north, widespread frost and near- to below-freezing temperatures were reported in the **Great Lakes and Northeastern States** on April 25 and several mornings thereafter, burning back winter grains and increasing grower concerns about possible adverse effects on blooming fruit trees. In contrast, very mild weather prevailed in the **North Central States**. **North Dakota's** weekly temperatures ranged from 6 to 9°F above normal.

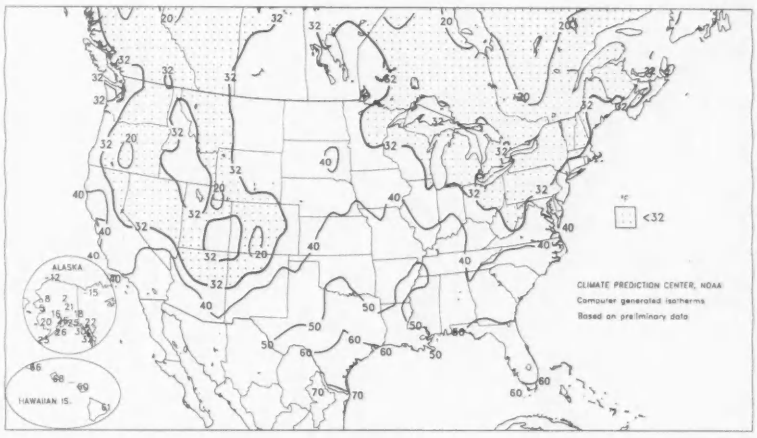
Extreme Maximum Temperature (°F)

APR 25 - MAY 1, 1999



Extreme Minimum Temperature (°F)

APR 25 - MAY 1, 1999



During the early- to midweek period, near- to below-freezing temperatures were reported in the **Northeast** and the **Northwest**. On Sunday, **Mansfield, OH** noted a daily-record low of 28°F. Lows also fell to 28°F in **Williamsport, PA** and **Syracuse, NY**. Two days later, **Yakima, WA** noted their first of two daily-record lows (25 and 27°F). On Wednesday, **Redmond, OR** (18°F) and **Bakersfield, CA** (38°F) also posted record lows. Later the same day, northwesterly winds in **California** gusted to 41 mph in **Modesto** and 36 mph in **Sacramento**.

The cool air was anchored by an Omega blocking pattern, named for its similarity in appearance to the Greek letter (Ω). The same pattern brought a continuing series of storms southeastward into the **West**, then slowly eastward across the Nation, undercutting the block. As a result, cool, stormy weather prevailed from the **Rockies** and the **central and southern High Plains** into the **Southeast**. Early-week rainfall ranged from 2 to 5 inches across the **eastern portions of Kansas and Oklahoma** and on the **Ozark Plateau**, boosting monthly rainfall to an April-record 8.70 inches (282 percent of normal) in **Topeka, KS** and 10.35 inches (260 percent) in **Joplin, MO**.

Farther north, drier air edged into the **Corn Belt**, but not before light rain propelled monthly precipitation in **Rochester, MN** to 6.47 inches (237 percent), tying their April record set in 1990. In **Indianapolis, IN**, rain fell on 22 days during April, including 0.97 inch on the 27th. Elsewhere in the region, April rainfall totaled 8.47 inches (318 percent of normal) in **Omaha (Eppley Airfield), NE** and 7.75 inches (212 percent) in **Rockford, IL**.

Late in the week, heavy precipitation became more focused across the **central and southern Plains** and the **Carolinas**. In northern Texas, 4-day (April 29 - May 2) rainfall totaled 5.07 inches in **Amarillo** and 3.55 inches in **Dalhart**. Farther north, **Cheyenne, WY** netted 1.62 inches on Friday, their second-wettest April day on record. In **Colorado**, April 29 - May 1 totals included 3.83 inches in **Pueblo** and 5.20 inches in **Colorado Springs**, helping to boost April rainfall to 5.30 inches (602 percent of normal) and 7.50 inches (630 percent), respectively. Farther south, however, only light showers dampened **southern Texas**, where significant rain last fell in late March. All of **Victoria's** April rainfall (0.33 inch, or 14 percent of normal) fell on the 28th. Dry weather also persisted along and near the **Gulf Coast**, holding April rainfall totals to an April-record 0.08 inch (2 percent of normal) in **Mobile, AL**, 0.30 inch (7 percent) in **New Orleans, LA**, and 0.40 inch (35 percent) in **Tampa, FL**.

In parts of the **Carolinas**, mid- to late-week rainfall ranged from 4 to locally more than 12 inches. In **northeastern South Carolina, Loris** recorded 11.93 inches from April 28 - May 2. **Wilmington, NC** collected daily-record totals on Wednesday (1.47 inches) and Friday (2.19 inches). Rainfall provided some relief from extreme dryness in **Peninsular Florida**, including a daily-record amount in **Orlando** (1.23 inches on Wednesday). Cool weather accompanied the rain across the **Southeast**. On Thursday, highs in **North Carolina** reached only 46°F in **Greensboro** and 49°F in **Raleigh-Durham**. Two days later in **Florida, Tampa's** high of 68°F was their lowest maximum temperature in May since May 4, 1921.

Weather Data for Selected Locations in the Delta

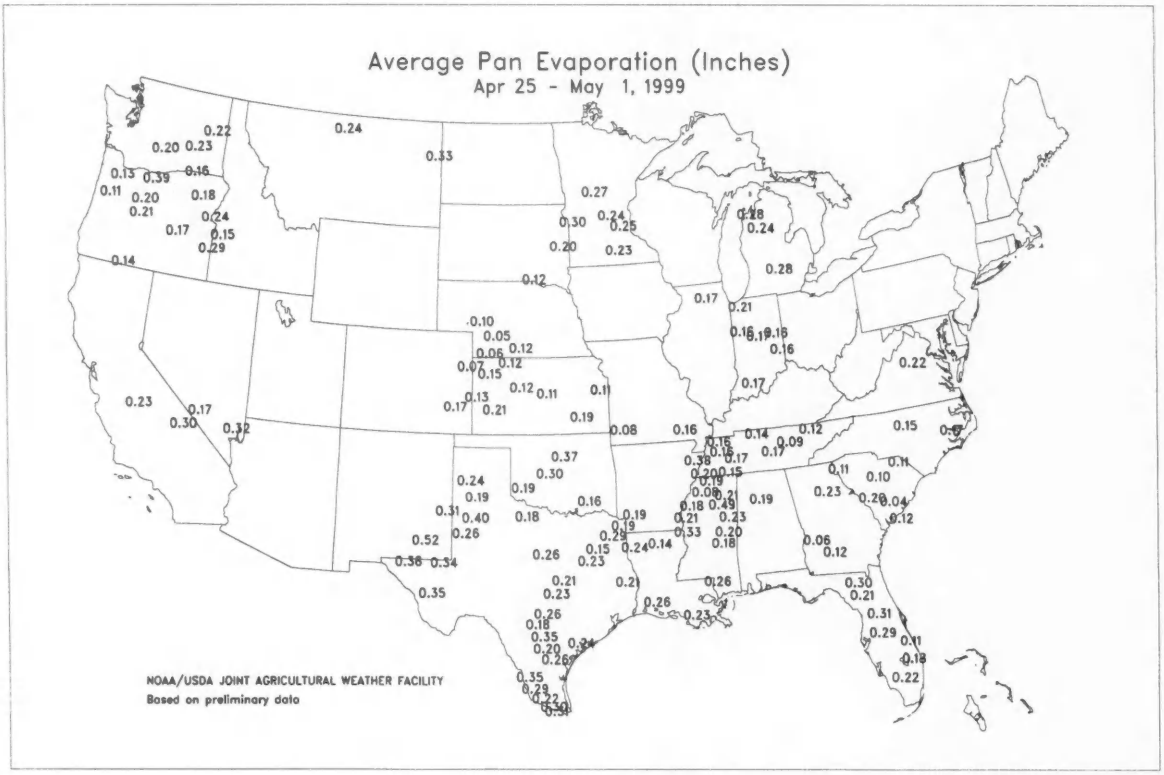
Weather Data for the Week Ending May 1, 1999

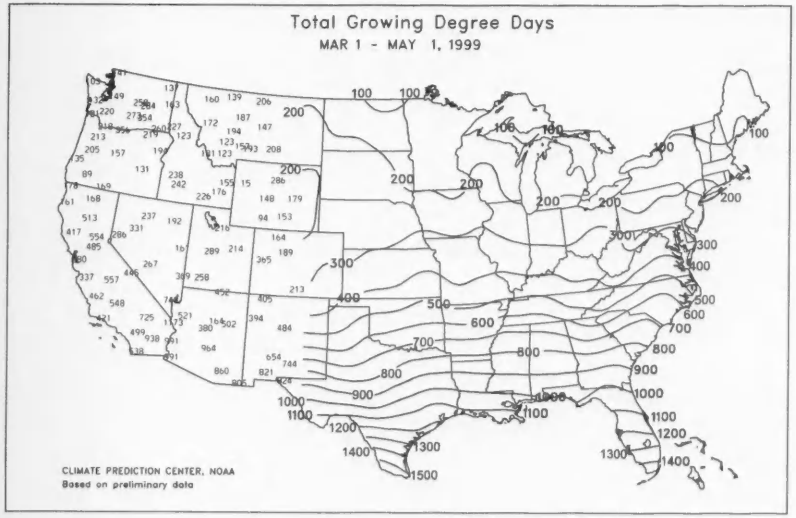
Data provided by the Mississippi State Delta Research and Extension Center and compiled by USDA/OCE/WAOB's Stoneville Field Office

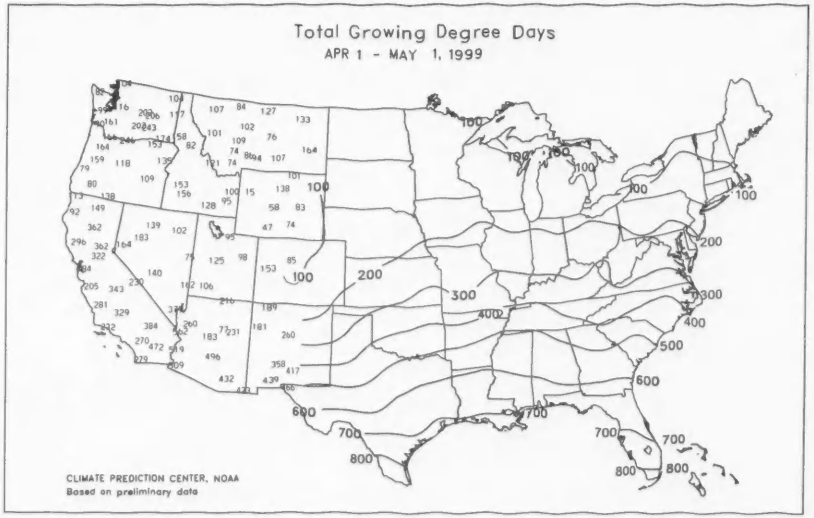
STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							4-INCH SOIL TEMP, °F		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
MS	INDIANOLA 1S	80	60	86	53	70	-	0.67	-	0.66	9.70	-	21.25	-	74	67	0	0	2	1
	INVERNESS 5E	*79*	*60*	*85*	*51*	*70*	-	*1.15*	-	*1.11*	*9.94*	-	-	-	*72*	*67*	*0*	*0*	*3*	*1*
	LYON	78	58	84	51	68	-	1.54	-	1.07	9.85	-	20.17	-	-	-	0	0	3	1
	ONWARD	80	60	86	50	70	-	0.84	-	0.80	12.27	-	21.83	-	70	68	0	0	2	1
	SIDON	79	59	85	52	69	-	0.75	-	0.69	9.15	-	21.32	-	79	69	0	0	2	1
	STONEVILLE *	80	58	86	50	69	2	0.81	-0.52	0.80	10.31	95	25.41	125	79	69	0	0	2	1

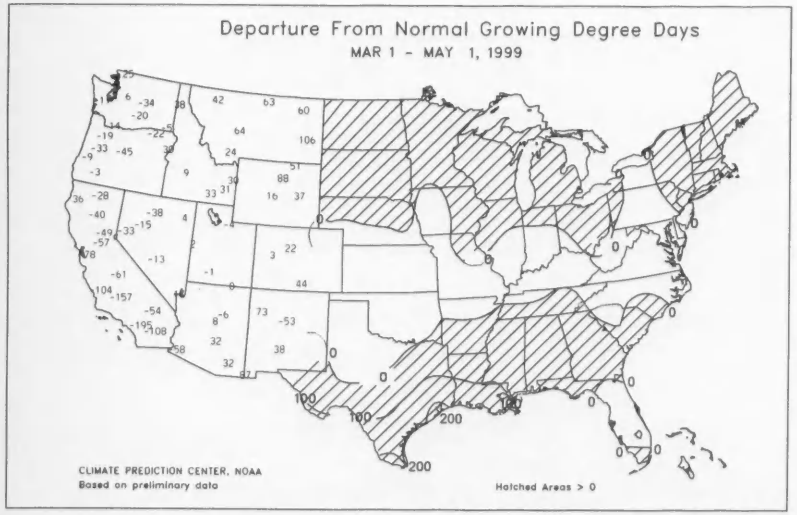
** Based on 1964-93 normals.*

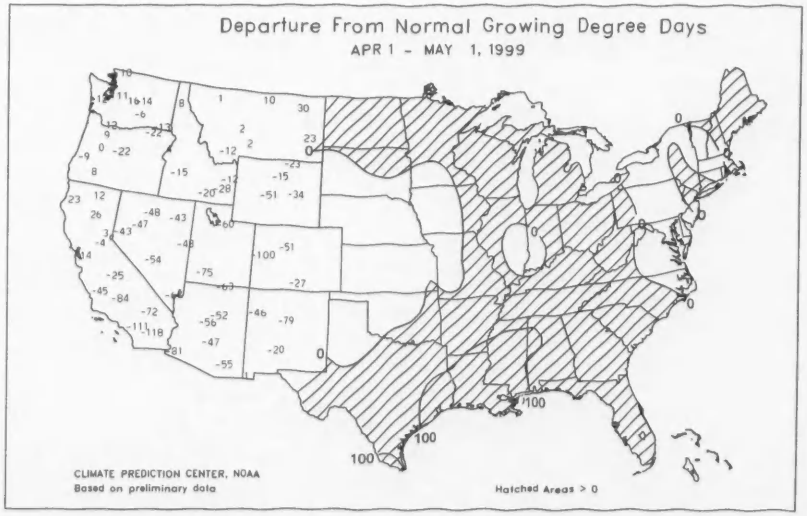
Delta Weather and Crop Summary: Early-week thunderstorms provided light to moderate rainfall to the Mississippi Delta, improving soil moisture. Fieldwork was briefly delayed, but quickly resumed following the rain. With cotton planting underway, soil temperatures remained in a favorable, near-normal range. In addition, above-normal air temperatures continued to promote winter wheat development throughout the area.


Average Pan Evaporation (Inches)
Apr 25 - May 1, 1999
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary data


Total Growing Degree Days
MAR 1 - MAY 1, 1999
CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data


Total Growing Degree Days
APR 1 - MAY 1, 1999
CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data


Departure From Normal Growing Degree Days
MAR 1 - MAY 1, 1999
CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data
Hatched Areas > 0


Departure From Normal Growing Degree Days
APR 1 - MAY 1, 1999
CLIMATE PREDICTION CENTER, NOAA
Based on preliminary data
Hatched Areas > 0

National Weather Data for Selected Cities

Weather Data for the Week Ending May 1, 1999

Data Provided by Climate Prediction Center (301-763-8000 EXT. 7503)

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																		TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	75	55	82	45	65	0	1.12	0.01	0.97	8.83	78	19.72	93	92	47	0	0	4	1
	HUNTSVILLE	74	55	79	45	64	0	1.35	0.26	0.50	8.87	76	20.85	96	95	57	0	0	5	1
	MOBILE	82	61	90	46	72	1	0.08	-0.99	0.06	9.58	87	15.87	75	96	50	1	0	2	0
	MONTGOMERY	77	56	86	44	66	-1	0.51	-0.42	0.33	9.89	91	14.76	70	95	56	0	0	4	0
AK	ANCHORAGE	45	30	49	26	37	-3	0.12	-0.04	0.11	0.98	69	1.62	54	73	36	0	6	2	0
	BARROW	12	-4	26	-12	5	-2	0.00	-0.05	0.00	0.33	87	0.49	80	86	74	0	7	0	0
	FAIRBANKS	43	27	54	21	35	-4	0.18	0.10	0.08	0.56	77	1.01	62	68	35	0	6	2	0
	JUNEAU	47	34	53	27	41	-2	0.91	0.23	0.42	10.37	168	21.11	146	98	63	0	1	7	0
	KODIAK	44	33	47	26	39	-1	0.07	-1.01	0.02	7.58	84	19.26	89	70	39	0	4	3	0
	NOME	29	18	34	5	24	-1	0.22	0.06	0.14	0.94	75	3.10	117	94	75	0	7	4	0
AZ	FLAGSTAFF	52	29	65	22	41	-5	0.20	-0.05	0.08	3.53	87	4.29	52	62	29	0	5	4	0
	PHOENIX	79	58	92	52	68	-5	0.00	-0.02	0.00	1.32	117	1.50	60	50	20	1	0	0	0
	TUCSON	76	51	88	42	63	-6	0.00	-0.05	0.00	1.42	139	1.43	56	47	15	0	0	0	0
	YUMA	80	55	94	49	68	-7	0.00	-0.03	0.00	1.17	308	1.77	188	60	24	2	0	0	0
AR	FORT SMITH	73	52	76	47	62	-2	1.37	0.33	0.94	10.19	126	13.48	107	97	52	0	0	3	1
	LITTLE ROCK	76	56	81	52	66	1	0.69	-0.60	0.34	7.69	73	16.51	94	90	54	0	0	2	0
CA	BAKERSFIELD	72	48	80	38	60	-6	0.02	-0.07	0.01	1.12	69	5.50	155	73	28	0	0	1	0
	EUREKA	54	44	57	40	49	-2	0.18	-0.29	0.16	11.17	135	25.86	136	88	65	0	0	3	0
	FRESNO	74	49	81	40	62	-3	0.00	-0.14	0.00	1.84	65	5.85	89	76	26	0	0	0	0
	LOS ANGELES	63	53	65	48	58	-3	0.03	-0.05	0.00	3.71	136	6.12	80	81	56	0	0	1	0
	REDDING	73	52	81	41	62	1	0.15	-0.19	0.13	5.21	80	15.98	94	63	22	0	0	2	0
	SACRAMENTO	71	46	81	37	59	-2	0.00	-0.15	0.00	2.29	61	9.69	94	82	34	0	0	0	0
	SAN DIEGO	61	54	64	50	57	-5	0.00	-0.10	0.00	2.75	107	4.99	84	82	58	0	0	0	0
	SAN FRANCISCO	59	48	68	45	54	-3	0.00	-0.17	0.00	5.03	113	12.61	105	84	50	0	0	0	0
CO	ALAMOSA	55	27	67	21	41	-4	1.25	1.12	0.81	1.94	202	2.01	134	89	35	0	7	4	1
	CO SPRINGS	52	35	67	30	44	-7	5.76	5.41	2.66	8.29	379	8.46	295	96	59	0	2	5	4
	DENVER	54	37	71	30	45	-7	2.89	2.42	2.03	6.48	212	7.04	171	94	63	0	2	5	1
	GRAND JUNCTION	60	43	70	37	51	-5	0.95	0.78	0.33	2.32	138	2.69	99	90	46	0	0	5	0
	PUEBLO	59	39	76	30	49	-7	4.16	3.93	2.00	7.30	429	7.42	320	97	55	0	1	5	3
CT	BRIDGEPORT	62	43	71	38	52	0	0.00	-0.88	0.00	5.07	66	15.51	111	87	34	0	0	0	0
	HARTFORD	66	39	73	34	52	-1	0.00	-0.93	0.00	5.63	74	14.39	101	71	25	0	0	0	0
DC	WASHINGTON	68	47	77	42	57	-3	0.00	-0.69	0.00	6.27	105	14.23	125	76	30	0	0	0	0
DE	WILMINGTON	66	42	75	36	54	-2	0.00	-0.82	0.00	7.43	107	16.36	127	76	28	0	0	0	0
FL	DAYTONA BEACH	80	63	91	52	71	0	0.39	-0.16	0.28	1.74	33	8.37	76	92	54	1	0	3	0
	JACKSONVILLE	73	60	89	50	66	-3	0.18	-0.46	0.14	2.54	39	8.67	63	98	67	0	0	3	0
	KEY WEST	83	74	86	70	79	0	0.91	0.39	0.84	1.85	52	5.93	81	90	69	0	0	2	1
	MIAMI	85	70	88	58	78	1	1.19	0.30	1.06	1.81	34	5.06	53	88	51	0	0	2	1
	ORLANDO	83	64	92	53	73	0	2.17	1.73	1.22	3.63	71	6.89	66	96	47	3	0	4	2
	PENSACOLA	81	64	87	51	72	2	0.21	-0.59	0.00	5.12	54	11.75	60	97	60	0	0	1	0
	TALLAHASSEE	77	61	86	52	69	0	0.57	-0.25	0.25	4.27	42	10.18	50	94	58	0	0	4	0
	TAMPA	81	65	88	54	73	-1	0.23	-0.09	0.20	1.21	29	4.54	49	91	51	0	0	2	0
	WEST PALM	85	67	90	54	76	1	1.64	0.78	0.16	2.53	38	10.94	90	91	50	1	0	5	1
GA	ATHENS	64	52	84	43	58	-7	1.59	0.69	0.55	5.51	57	13.66	73	97	72	0	0	4	2
	ATLANTA	66	53	79	46	60	-5	0.44	-0.50	0.27	4.86	48	12.16	62	96	63	0	0	5	0
	AUGUSTA	68	54	88	45	61	-5	1.24	0.49	0.92	5.07	63	13.15	80	94	61	0	0	5	1
	COLUMBUS	71	57	80	49	64	-4	1.63	0.70	1.55	5.30	52	11.14	57	93	61	0	0	2	1
	MACON	69	54	86	46	62	-6	0.32	-0.44	0.14	4.07	49	12.25	69	95	63	0	0	4	0
	SAVANNAH	69	55	90	46	62	-7	1.41	0.67	0.55	3.60	52	11.67	85	96	67	1	0	4	1
HI	HILO	80	64	82	61	72	-1	0.76	-2.45	0.28	28.38	96	64.52	130	91	59	0	0	4	0
	HONOLULU	82	69	85	68	76	-1	0.05	-0.26	0.01	1.31	35	4.17	44	80	49	0	0	2	0
	KAHULUI	84	63	87	60	74	-1	0.09	-0.23	0.00	1.91	42	6.05	52	88	48	0	0	2	0
	LIHUE	80	71	81	66	75	1	0.77	-0.01	0.75	4.81	62	10.48	62	83	61	0	0	2	1
ID	BOISE	61	41	74	36	51	-2	0.46	0.18	0.25	1.60	62	4.96	97	85	37	0	0	3	0
	LEWISTON	59	42	72	37	50	-3	0.22	-0.06	0.12	1.86	83	3.75	85	88	39	0	0	5	0
	POCATELLO	55	38	65	33	47	-2	1.26	0.97	0.48	2.89	115	5.54	124	88	52	0	0	7	0
IL	CHICAGO/O'HARE	62	40	72	33	51	-2	1.25	0.41	1.23	9.50	148	15.61	168	80	32	0	0	2	1
	MOLINE	66	41	75	33	54	-1	0.78	-0.18	0.61	7.41	105	11.46	117	88	35	0	0	2	1
	PEORIA	66	46	73	37	56	0	1.17	0.27	1.02	5.44	80	9.67	99	86	38	0	0	2	1
	ROCKFORD	65	40	73	34	53	0	1.43	0.56	1.39	9.03	145	13.31	154	87	33	0	0	2	1
	SPRINGFIELD	66	45	74	37	56	-2	0.79	-0.06	0.44	5.53	79	9.62	93	90	49	0	0	4	0
IN	EVANSVILLE	69	50	75	45	60	-1	3.55	2.58	1.30	10.57	119	18.51	126	88	48	0	0	3	3
	FORT WAYNE	65	40	70	33	53	-1	0.61	-0.19	0.44	7.57	118	12.89	127	82	35	0	0	2	0
	INDIANAPOLIS	66	48	73	40	57	0	1.18	0.29	0.96	5.74	75	15.67	126	73	42	0	0	3	1
	SOUTH BEND	67	40	71	31	53	0	0.86	0.01	0.74	8.78	125	13.47	121	78	27	0	1	2	1
IA	BURLINGTON	69	49	76	43	59	2	1.11	0.26	0.53	7.67	119	12.40	140	74	40	0	0	3	1
	CEDAR RAPIDS	65	42	71	35	53	-1	0.34	-0.46	0.34	6.29	112	10.16	133	85	36	0	0	1	0
	DES MOINES	64	45	71	38	55	-2	0.54	-0.28	0.35	5.63	97	7.85	100	86	45	0	0	3	0
	DUBUQUE	64	41	71	36	53	0	0.45	-0.48	0.43	7.64	113	10.76	116	80	33	0	0	2	0
	SIOUX CITY	65	44	74	35	54	-1	0.32	-0.33	0.18	5.56	126	6.70	119	91	46	0	0	3	0
	WATERLOO	67	41	73	35	54	1	0.36	-0.49	0.36	5.52	97	7.72	102	88	30	0	0	1	0
KS	CONCORDIA	62	46	73	40	54	-3	1.79	1.11	1.22	6.46	139	7.23	121	96	67	0	0	3	2
	DODGE CITY	67	47	76	42	57	-2	0.47	-0.10	0.28	6.44	175	8.41	175	96	51	0	0	2	0
	GOODLAND	59	42	71	36	50	-3	1.35	0.88	0.83	4.89	193	5.45	165	98	58	0	0	5	1
	TOPEKA	64	49	73	43	56	-3	1.90	1.08	1.15	9.74	172	11.85	155	94	65	0	0	4	1

Based on 1961-90 normals

Weather Data for the Week Ending May 1, 1999

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL, IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	66	51	71	49	58	-2	1.17	0.52	0.79	8.12	165	9.86	147	93	62	0	0	4	1
KY	JACKSON	66	48	71	41	57	-3	1.00	0.06	0.52	6.30	71	15.91	97	85	44	0	0	3	1
	LEXINGTON	66	48	70	37	57	-2	0.84	-0.09	0.61	6.09	72	14.58	101	89	51	0	0	4	1
	LOUISVILLE	70	51	74	42	60	0	2.42	1.42	0.86	7.46	83	17.09	112	87	48	0	0	4	3
	PADUCAH	72	51	76	43	61	-1	0.98	-0.18	0.53	9.69	96	18.06	105	93	52	0	0	4	1
LA	BATON ROUGE	84	62	89	49	73	2	0.59	-0.65	0.57	6.18	60	13.15	63	96	42	0	0	2	1
	LAKE CHARLES	86	63	91	55	74	3	0.67	-0.29	0.67	4.44	66	11.19	75	96	45	2	0	1	1
	NEW ORLEANS	84	66	90	59	75	4	0.00	-1.02	0.00	5.03	53	9.15	44	90	44	2	0	0	0
	SHREVEPORT	81	60	87	51	70	2	0.63	-0.37	0.55	13.09	175	26.47	173	90	46	0	0	3	1
ME	CARIBOU	57	33	71	30	45	2	0.24	-0.38	0.16	3.92	79	8.89	95	80	30	0	4	2	0
	PORTLAND	60	38	65	30	49	2	0.17	-0.76	0.12	4.91	62	14.93	101	69	31	0	1	2	0
MD	BALTIMORE	66	43	75	37	54	-3	0.00	-0.75	0.00	5.76	87	13.11	102	77	25	0	0	0	0
MA	BOSTON	58	43	68	40	51	-2	0.22	-0.59	0.08	3.63	49	12.83	88	68	35	0	0	2	0
	WORCESTER	58	40	65	34	49	0	0.01	-0.93	0.00	5.02	63	14.41	95	71	43	0	0	1	0
MI	ALPENA	62	31	72	25	46	0	0.00	-0.55	0.00	2.22	50	5.96	81	79	24	0	4	0	0
	GRAND RAPIDS	66	39	71	31	52	1	0.09	-0.69	0.09	7.82	128	12.85	137	74	27	0	1	1	0
	HOUGHTON LAKE	67	31	73	25	49	1	0.00	-0.54	0.00	2.94	68	6.09	87	84	22	0	5	0	0
	LANSING	66	34	72	27	50	-1	0.00	-0.63	0.00	8.20	158	11.52	143	92	44	0	4	0	0
	MARQUETTE	63	30	77	27	46	3	0.00	-0.63	0.00	3.30	60	11.37	121	76	22	0	6	0	0
	MUSKEGON	64	38	69	29	51	1	0.00	-0.66	0.00	5.27	96	8.98	96	73	28	0	2	0	0
MN	DULUTH	65	36	78	31	51	7	0.00	-0.57	0.00	3.52	83	5.03	80	67	18	0	2	0	0
	INT'L FALLS	74	33	81	30	53	8	0.00	-0.43	0.00	4.05	150	4.63	110	75	20	0	4	0	0
	MINNEAPOLIS	70	43	77	33	56	4	0.01	-0.63	0.01	5.38	121	8.45	135	74	28	0	0	1	0
	ROCHESTER	65	41	72	34	53	3	0.09	-0.62	0.08	7.32	158	10.39	169	86	35	0	0	2	0
	ST. CLOUD	72	37	79	31	55	5	0.00	-0.62	0.00	3.34	87	4.25	82	79	21	0	1	0	0
MS	JACKSON	81	58	86	47	69	2	0.86	-0.41	0.40	7.15	62	17.65	82	97	47	0	0	3	0
	MERIDIAN	80	56	86	44	68	1	0.31	-0.83	0.24	7.41	60	15.20	66	97	44	0	0	2	0
	TUPELO	77	57	81	48	67	1	1.38	0.14	1.24	15.58	135	30.05	142	95	50	0	0	4	1
MO	COLUMBIA	63	48	74	42	55	-4	0.50	-0.51	0.42	6.69	94	11.29	108	94	64	0	0	4	0
	KANSAS CITY	62	48	72	45	55	-4	2.18	1.29	1.69	10.02	173	14.08	177	94	67	0	0	3	1
	SAINT LOUIS	67	50	74	46	59	-2	1.20	0.36	0.60	6.19	86	14.81	133	87	53	0	0	4	1
	SPRINGFIELD	66	48	74	40	57	-3	2.58	1.60	2.01	10.23	125	16.08	132	99	62	0	0	4	2
MT	BILLINGS	58	42	68	36	50	1	0.97	0.48	0.49	2.91	98	3.98	88	96	53	0	0	5	1
	BUTTE	52	32	67	28	42	0	0.87	0.58	0.25	2.61	151	3.52	132	94	50	0	5	4	0
	GLASGOW	64	47	71	40	55	6	0.31	0.06	0.21	1.91	166	3.30	186	92	45	0	0	5	0
	GREAT FALLS	53	34	71	30	44	-4	0.86	0.43	0.41	1.74	68	2.43	60	90	50	0	4	3	0
	KALISPELL	57	36	72	29	47	0	0.09	-0.22	0.09	1.40	66	3.97	83	77	29	0	3	1	0
	MILES CITY	67	50	77	47	59	8	0.02	-0.39	0.01	2.83	139	3.45	113	87	45	0	0	2	0
	MISSOULA	56	36	71	29	46	-1	0.27	-0.01	0.20	0.82	41	2.87	71	80	37	0	1	3	0
NE	GRAND ISLAND	60	44	72	37	52	-3	0.30	-0.40	0.27	5.00	111	5.65	99	94	62	0	0	4	0
	LINCOLN	62	45	73	37	54	-3	0.44	-0.30	0.23	6.27	126	7.90	127	96	62	0	0	3	0
	NORFOLK	63	44	72	38	54	-1	0.19	-0.45	0.12	6.09	143	6.94	125	92	51	0	0	3	0
	NORTH PLATTE	59	41	67	36	50	-3	1.24	0.64	0.63	3.73	113	4.33	106	99	60	0	0	4	2
	OMAHA	64	46	72	39	55	-2	1.10	0.32	0.83	10.02	208	12.01	189	91	55	0	0	3	1
	SCOTTSBLUFF	56	41	69	35	49	-2	1.06	0.59	0.65	4.70	172	4.99	135	10	63	0	0	7	1
	VALENTINE	61	43	70	36	52	1	0.50	-0.03	0.49	3.43	123	4.30	124	95	55	0	0	2	0
NV	ELY	52	30	62	24	41	-4	0.48	0.23	0.25	1.34	68	2.15	64	93	45	0	4	5	0
	LAS VEGAS	72	52	89	45	62	-6	0.52	0.46	0.51	1.04	155	1.12	70	67	25	0	0	2	1
	RENO	60	41	72	32	51	-1	0.63	0.52	0.30	1.22	110	3.24	102	71	22	0	1	4	0
	WINNEMUCCA	59	33	72	25	46	-4	0.28	0.09	0.13	1.00	61	3.05	101	89	33	0	3	3	0
NH	CONCORD	63	31	73	27	47	-2	0.02	-0.68	0.02	3.91	68	12.13	113	81	25	0	5	1	0
NJ	NEWARK	66	45	76	39	56	-1	0.00	-0.92	0.00	5.64	72	15.62	109	57	23	0	0	0	0
NM	ALBUQUERQUE	68	45	76	38	56	-3	0.04	-0.07	0.03	1.77	174	1.89	97	73	18	0	0	2	0
NY	ALBANY	65	37	73	32	51	0	0.00	-0.72	0.00	4.90	81	11.27	106	73	25	0	1	0	0
	BINGHAMTON	61	37	67	29	49	0	0.00	-0.74	0.00	5.11	84	11.41	106	62	26	0	1	0	0
	BUFFALO	60	38	70	29	49	-1	0.00	-0.69	0.00	4.80	85	11.68	109	78	34	0	1	0	0
	ROCHESTER	60	35	67	29	47	-3	0.00	-0.63	0.00	5.54	111	10.15	111	84	30	0	2	0	0
	SYRACUSE	63	35	70	28	50	-1	0.00	-0.79	0.00	5.55	89	12.31	115	71	27	0	1	0	0
NC	ASHEVILLE	62	47	76	39	55	-4	1.01	0.20	0.35	5.44	67	15.11	99	90	57	0	0	5	0
	CHARLOTTE	64	49	79	43	56	-6	2.96	2.31	1.22	5.48	76	11.67	79	89	59	0	0	5	3
	GREENSBORO	62	46	74	37	54	-7	3.07	2.35	1.88	6.63	100	13.52	103	90	53	0	0	5	2
	HATTERAS	61	52	69	46	56	-6	3.00	2.17	1.75	9.28	117	15.47	89	89	65	0	0	5	2
	RALEIGH	63	46	77	41	54	-8	2.07	1.41	1.20	8.07	124	15.80	116	93	46	0	0	5	2
	WILMINGTON	64	51	78	48	58	-8	10.29	9.56	4.83	14.32	209	21.12	146	89	62	0	0	6	3
ND	BISMARCK	66	42	74	38	54	6	0.24	-0.21	0.24	2.12	85	3.64	107	87	40	0	0	1	0
	DICKINSON	64	44	73	37	54	6	0.10	-0.42	0.08	1.69	64	2.93	87	93	50	0	0	2	0
	FARGO	71	45	79	39	58	9	0.05	-0.44	0.04	2.93	99	4.28	104	69	26	0	0	2	0
	GRAND FORKS	71	41	76	34	56	8	0.07	-0.30	0.06	2.01	86	3.23	91	85	32	0	0	1	0
	JAMESTOWN	67	42	73	37	55	6	0.13	-0.26	0.13	2.08	85	3.71	105	90	35	0	0	1	0
	WILLISTON	68	45	76	32	56	5	0.06	-0.31	0.05	0.70	35	2.99	100	87	43	0	1	2	0
OH	AKRON-CANTON	66	41	72	29	53	0	0.00	-0.78	0.00	5.37	81	11.67	106	69	28	0	1	0	0
	CINCINNATI	65	48	70	37	57	-1	0.55	-0.34	0.55	4.96	61	13.38	100	80	46	0	0	1	1
	CLEVELAND	61	40	68	28	51	-1	0.00	-0.76	0.00	5.62	91	11.33	109	80	35	0	1	0	0
	COLUMBUS	68	44	74	33	56	1	0.08	-0.71	0.08	6.64	100	12.27	111	80	31	0	0	1	0
	DAYTON	66	42	72	30	54	-2	0.16	-0.67	0.13	5.32	76	13.22	117	79	34	0	1	2	0
	MANSFIELD	66	40	71	29	53	0	0.00	-0.91	0.00	6.77	96	13.07	118	75	30	0	1	0	0

Based on 1961-90 normals

Weather Data for the Week Ending May 1, 1999

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE Mar 1	PCT. NORMAL SINCE Mar 1	TOTAL IN., SINCE Jan 1	PCT. NORMAL SINCE Jan 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	65	42	71	30	54	1	0.00	-0.68	0.00	6.37	112	11.19	122	75	29	0	1	0	0
	YOUNGSTOWN	66	41	73	26	53	1	0.00	-0.73	0.00	6.80	108	14.21	136	69	27	0	1	0	0
OK	OKLAHOMA CITY	71	54	76	49	62	-2	4.85	4.01	3.79	10.57	188	13.58	164	93	59	0	0	4	2
	TULSA	70	53	75	48	61	-4	4.33	3.31	2.76	10.79	147	15.06	139	95	60	0	0	3	2
OR	ASTORIA	52	39	57	36	46	-4	1.36	0.50	0.45	12.82	109	44.89	153	10	67	0	0	7	0
	BURNS	56	31	68	26	43	-3	0.12	-0.05	0.08	1.25	74	4.84	140	84	31	0	5	3	0
	EUGENE	58	38	68	32	48	-4	0.34	-0.23	0.17	6.13	70	23.83	107	93	43	0	1	5	0
	MEDFORD	63	40	75	35	51	-2	0.30	0.06	0.16	1.61	53	9.57	125	85	29	0	0	3	0
	PENDLETON	59	40	69	32	49	-4	0.09	-0.16	0.01	1.85	81	3.88	79	81	37	0	1	2	0
	PORTLAND	59	42	69	38	51	-2	0.58	0.08	0.23	5.93	99	21.28	140	97	43	0	0	5	0
	SALEM	58	38	69	34	48	-3	0.49	0.03	0.25	6.90	104	27.91	163	96	42	0	0	6	0
PA	ALLENTOWN	67	38	73	30	52	-2	0.02	-0.86	0.00	4.89	71	12.98	99	82	29	0	1	1	0
	ERIE	58	38	67	29	48	-2	0.00	-0.76	0.00	6.00	95	12.80	118	74	32	0	1	0	0
	MIDDLETOWN	69	43	77	37	56	0	0.00	-0.83	0.00	5.74	86	12.58	101	76	26	0	0	0	0
	PHILADELPHIA	66	45	74	38	56	-1	0.00	-0.85	0.00	7.63	106	15.47	117	70	29	0	0	0	0
	PITTSBURGH	67	41	71	30	54	0	0.00	-0.75	0.00	5.76	86	13.04	113	62	23	0	1	0	0
	WILKES-BARRE	65	37	71	26	51	-2	0.01	-0.74	0.00	4.98	89	11.24	114	77	44	0	1	1	0
	WILLIAMSPORT	67	36	74	28	52	-2	0.00	-0.79	0.00	5.96	91	12.83	108	82	25	0	2	0	0
RI	PROVIDENCE	62	41	69	35	52	0	0.01	-0.92	0.00	5.02	61	17.17	109	66	26	0	0	1	0
SC	BEAUFORT	70	55	88	47	62	-7	1.76	1.09	0.95	3.82	54	8.76	62	95	69	0	0	6	1
	CHARLESTON	67	54	87	46	61	-8	2.56	1.94	0.98	5.98	84	12.95	94	97	71	0	0	5	3
	COLUMBIA	65	53	80	44	59	-7	3.18	2.46	1.67	6.89	84	13.18	78	96	69	0	0	6	2
	GREENVILLE	64	50	80	41	57	-6	2.47	1.60	0.90	6.67	71	13.35	75	89	60	0	0	5	3
SD	ABERDEEN	66	43	72	39	55	4	0.48	-0.01	0.48	2.83	84	3.66	87	91	36	0	0	1	0
	HURON	66	45	72	42	56	4	0.52	-0.03	0.39	3.62	95	4.26	87	90	40	0	0	3	0
	RAPID CITY	58	43	65	38	50	1	0.48	-0.04	0.44	3.36	112	3.61	93	97	63	0	0	2	0
	SIOUX FALLS	63	41	71	35	52	0	0.68	0.03	0.44	6.06	143	6.69	124	92	38	0	0	3	0
TN	BRISTOL	65	48	75	39	57	-2	0.88	0.08	0.42	4.95	69	12.85	93	93	51	0	0	5	0
	CHATTANOOGA	69	53	76	42	61	-1	1.76	0.81	0.61	8.24	79	21.80	108	94	57	0	0	4	1
	KNOXVILLE	66	50	71	41	58	-3	2.16	1.33	0.98	8.29	93	17.82	104	95	63	0	0	5	2
	MEMPHIS	77	59	81	52	68	1	4.32	3.07	3.03	15.62	141	23.87	125	92	52	0	0	3	2
	NASHVILLE	72	52	80	44	62	-1	0.56	-0.49	0.16	6.47	69	18.03	107	90	47	0	0	5	0
TX	ABILENE	77	56	86	50	67	-2	0.79	0.25	0.39	4.42	133	6.35	115	88	47	0	0	3	0
	AMARILLO	67	46	78	40	56	-4	5.30	4.97	2.66	9.20	460	11.87	382	92	56	0	0	5	3
	AUSTIN	83	64	88	63	74	1	0.66	-0.15	0.39	5.07	111	5.30	63	95	54	0	0	3	0
	BEAUMONT	85	64	90	58	74	2	0.61	-0.39	0.59	4.22	61	8.44	56	93	48	1	0	3	1
	BROWNSVILLE	86	74	90	71	80	3	0.16	-0.35	0.15	3.20	147	4.96	103	92	62	1	0	2	0
	CORPUS CHRISTI	82	69	86	61	76	0	0.92	0.36	0.85	3.15	115	3.93	61	96	72	0	0	4	1
	DEL RIO	82	66	93	61	74	0	0.71	0.19	0.62	5.10	188	5.14	121	94	49	1	0	3	1
	EL PASO	79	54	84	49	67	0	0.00	-0.05	0.00	0.55	104	0.65	48	40	14	0	0	0	0
	FORT WORTH	80	61	86	56	70	2	1.21	0.24	1.00	5.86	91	7.78	74	84	45	0	0	3	1
	GALVESTON	81	69	85	66	75	3	0.18	-0.47	0.01	2.11	45	5.47	53	91	65	0	0	3	0
	HOUSTON	86	63	91	58	75	4	0.43	-0.49	0.43	4.85	77	7.77	62	91	47	2	0	1	0
	LUBBOCK	71	48	84	43	60	-5	3.51	3.18	1.51	4.80	255	6.15	209	89	47	0	0	5	3
	MIDLAND	81	55	92	48	68	0	0.09	-0.21	0.03	1.48	99	1.81	72	83	29	2	0	4	0
	SAN ANGELO	81	58	91	49	70	-1	1.33	0.80	1.06	4.19	158	4.81	106	92	41	2	0	4	1
	SAN ANTONIO	82	65	89	62	73	1	0.74	-0.02	0.50	4.42	107	4.51	59	94	51	0	0	2	1
	VICTORIA	82	64	87	59	73	0	0.33	-0.42	0.33	3.74	92	6.31	76	10	61	0	0	1	0
	WACO	82	59	89	55	70	0	0.13	-0.76	0.01	4.26	75	6.63	71	95	54	0	0	4	0
	WICHITA FALLS	75	55	83	50	65	-2	1.20	0.39	0.96	10.61	199	13.17	168	92	53	0	0	4	1
UT	SALT LAKE CITY	57	41	65	37	49	-4	1.40	0.92	0.58	4.43	108	6.69	104	93	44	0	0	6	1
VT	BURLINGTON	62	35	73	28	49	-1	0.01	-0.68	0.00	3.20	63	7.85	92	78	27	0	3	1	0
VA	LYNCHBURG	61	44	69	36	52	-7	0.55	-0.22	0.25	5.32	80	12.50	99	88	40	0	0	4	0
	NORFOLK	59	48	75	40	54	-7	0.75	0.01	0.47	7.25	106	13.09	93	91	59	0	0	3	0
	RICHMOND	65	45	77	38	55	-6	0.32	-0.42	0.24	6.72	101	12.89	98	90	41	0	0	2	0
	ROANOKE	63	45	70	39	54	-5	0.64	-0.17	0.41	5.55	81	11.39	91	91	44	0	0	4	0
	WASH/DULLES	67	38	77	31	53	-4	0.00	-0.79	0.00	6.12	96	14.13	119	82	26	0	1	0	0
WA	OLYMPIA	56	35	67	31	46	-4	0.58	-0.04	0.08	8.29	100	36.05	163	95	41	0	2	5	0
	QUILLAYUTE	53	32	66	26	42	-6	0.80	-0.67	0.32	19.73	103	61.07	132	10	59	0	5	5	0
	SEATTLE-TACOMA	56	42	63	39	49	-3	0.72	0.27	0.28	5.47	92	19.26	126	94	41	0	0	5	0
	SPOKANE	58	36	65	28	47	-2	0.24	-0.04	0.09	1.52	56	6.63	107	75	28	0	1	4	0
	YAKIMA	64	36	73	26	50	-3	0.00	-0.11	0.00	0.31	26	3.02	96	76	22	0	3	0	0
WV	BECKLEY	60	41	70	30	51	-4	0.88	0.04	0.43	6.76	98	15.06	118	86	42	0	1	3	0
	CHARLESTON	68	44	72	34	56	-3	0.72	-0.09	0.43	6.10	86	13.58	104	91	36	0	0	2	0
	ELKINS	65	30	71	24	48	-4	0.00	-0.91	0.00	7.15	92	15.91	115	90	22	0	5	0	0
	HUNTINGTON	67	47	74	39	57	-2	0.85	-0.01	0.44	5.56	77	12.61	97	88	42	0	0	3	0
WI	EAU CLAIRE	71	40	80	33	56	5	0.00	-0.76	0.00	6.09	131	8.81	139	75	21	0	0	0	0
	GREEN BAY	67	35	75	29	51	2	0.00	-0.59	0.00	2.33	51	4.81	72	84	27	0	1	0	0
	LACROSSE	72	43	79	37	57	4	0.36	-0.35	0.36	6.43	130	10.05	148	78	22	0	0	1	0
	MADISON	65	38	73	32	52	1	0.21	-0.49	0.21	7.34	143	10.35	143	86	30	0	1	1	0
	MILWAUKEE	59	39	64	30	49	0	0.00	-0.78	0.00	7.80	124	13.16	141	75	39	0	1	0	0
WY	CASPER	56	39	67	35	47	1	0.51	0.07	0.33	3.35	130	3.88	105	94	53	0	0	5	0
	CHEYENNE	47	37	61	31	42	-4	4.22	3.81	1.67	5.81	236	6.30	194	98	77	0	1	7	3
	LANDER	49	36	63	33	43	-5	1.66	1.11	0.67	6.96	210	7.70	176	94	54	0	0	5	1
	SHERIDAN	60	42	71	38	51	4	1.03	0.55	0.40	4.31	156	4.91	118	96	63	0	0	6	0

NOTE: These data are preliminary and subject to change. In the past, precipitation totals from a number of stations have been incomplete.

National Agricultural Summary

April 26 - May 2, 1999

HIGHLIGHTS

Fieldwork and planting were halted by heavy rains in the High Plains, from Texas to Wyoming, as well as parts of eastern Kansas, Oklahoma, and adjacent areas of southern Missouri. Heavy rains also limited progress in the southern Atlantic Coast, but ended excessive dryness in parts of the Atlantic Coastal Plains and eased drought conditions in southern Florida. To a lesser extent, rains hampered field activities in the southern Appalachians and the Tennessee, lower Ohio, and middle Mississippi Valleys. Dry conditions aided planting in the eastern and northern Corn Belt, northern Great Plains, and Southwest. Excessive dryness delayed planting and hindered emergence and growth in parts of the Gulf Coast region and adjacent inland areas of the Southeast and lower Mississippi Valley. Below-normal temperatures hindered winter wheat development and emergence of other small grains and row crops in the central and southern Great Plains and most of the Corn Belt. Above-normal temperatures promoted crop emergence and development in the northern Great Plains and Great Lakes States, but dry soils hindered crop emergence. In California, cool weather, scattered showers, and strong winds caused minor planting delays.

Winter Wheat: Twenty-nine percent of the winter wheat was headed, a few days ahead of the 23 percent pace of last year, which is the normal for this date. Cool temperatures hampered growth in the central Great Plains, but heavy rainfall provided much-needed moisture in dry areas of the High Plains. Below-normal temperatures also slightly delayed heading and ripening in the southern Great Plains. In the Texas High Plains, additional moisture benefited fields in the heading stage, but excessive wetness promoted diseases in Oklahoma. Fields ripened in California despite cooler than ideal weather.

Corn: Acreage planted more than doubled, to 21 percent complete, but remained behind last year's 36 percent pace and the 5-year average of 34 percent. Planting rapidly accelerated in the northern Corn Belt, especially in Minnesota, due to dry, sunny weather. Rain and poor drying conditions limited progress in the southern and central Corn Belt, Great Plains, and Atlantic Coastal Plains. Plants were emerged on 5 percent of the acreage, equal to last year's progress. Rain promoted emergence and growth in the southern Corn Belt along the lower Ohio Valley. In central and southern Texas, showers added beneficial moisture for fields in the reproductive stages.

Cotton: The Nation's cotton acreage was 22 planted, up 8 percentage points from last week and equal to last year, but progress continued to lag behind the 5-year average for this date. Cool, wet soils limited planting in the Texas High Plains and central Texas, but added beneficial moisture for germination and growth. Planting lagged in the Southeast due to dry soils, while progress was halted by persistent rain in the nearby Atlantic Coastal Plains. In California, cool weather and gusty winds hampered planting, while wind-blown soil damaged some emerged cotton fields. Along the western Gulf Coast, cotton fields were entering the squaring stage.

Soybeans: Planting was 3 percent complete, compared to 5 percent a year ago and the normal of 4 percent. Planting lagged behind normal in the Corn Belt due to slow corn planting progress. Dry weather aided planting in the lower Mississippi Valley and Southeast. Rain prevented planting in parts of the Atlantic Coastal Plains.

Small grains: Oat planting, at 58 percent, was ahead of the 47 percent average for this date, but remained behind the rapid pace of a year ago. Thirty percent was emerged, compared to 26 percent last year. Spring wheat and barley planting advanced to 42 percent and 41 percent, respectively. Progress for both crops trailed last year's rapid progress, but spring wheat planting remained well ahead of the 30 percent average, while barley sowing continued slightly ahead of the 36 percent normal pace. Eleven percent of the spring wheat and 15 percent of the barley were emerged, slightly ahead of the 5-year average of 9 percent and 14 percent, respectively. Last year, emergence was at 22 percent for both crops. In most of the major small grains States, warm, windy conditions quickly dried soils and aided planting, while adequate moisture promoted emergence and early growth. In the Pacific Northwest, cool weather and dry soils hindered emergence.

Other crops: Rice planting advanced to 58 percent complete, slightly behind last year's 63 percent pace and the average of 60 percent. Twenty-nine percent was emerged compared with 38 percent a year ago and 32 percent normally emerged by this date. Sorghum planting was 18 percent complete, behind the 23 percent pace last year and the 5-year average of 24 percent. Peanuts planted was 9 percent complete, slightly behind last year's 13 percent and well behind behind the 20 percent 5-year average.

Crop Progress and Condition

Week Ending May 2, 1999

Winter Wheat Percent Headed

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
AR	91	72	87	79
CA	95	80	96	97
CO	3	1	1	0
GA	94	89	89	93
ID	0	0	0	0
IL	3	0	11	4
IN	3	1	11	3
KS	12	1	3	6
MI	0	0	0	0
MO	13	2	24	14
MT	0	0	0	0
NE	0	0	0	0
NC	80	50	75	66
OH	0	0	0	0
OK	68	35	55	56
OR	0	0	0	0
SD	0	0	0	0
TX	62	38	50	51
WA	0	0	2	0
19 Sts	29	15	23	23

These 19 States planted 91% of last year's winter wheat acreage.

Soybeans Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
AL	6	NA	9	6
AR	7	NA	10	8
GA	5	NA	2	3
IL	0	NA	1	3
IN	4	NA	3	6
IA	0	NA	6	4
KS	0	NA	3	2
KY	2	NA	1	2
LA	19	NA	25	12
MI	0	NA	3	1
MN	3	NA	13	4
MS	29	NA	27	25
MO	1	NA	1	1
NE	0	NA	1	1
NC	0	NA	10	7
OH	13	NA	3	8
SC	11	NA	12	5
SD	0	NA	0	0
TN	2	NA	0	1
19 Sts	3	NA	5	4

These 19 States planted 93% of last year's soybean acreage.

Corn Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
CO	11	9	46	37
GA	98	96	85	94
IL	8	7	27	38
IN	10	5	9	23
IA	14	3	33	37
KS	26	19	70	52
KY	65	43	35	42
MI	7	0	20	12
MN	41	6	73	36
MO	31	28	40	45
NE	14	8	39	29
NC	75	70	65	81
OH	24	9	9	27
PA	13	2	22	15
SD	7	1	21	10
TX	74	62	82	78
WI	11	1	23	13
17 Sts	21	10	36	34

These 17 States planted 90% of last year's corn acreage.

Corn Percent Emerged

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
CO	2	NA	0	0
GA	96	NA	74	NA
IL	3	NA	1	NA
IN	2	NA	0	NA
IA	0	NA	0	1
KS	5	NA	11	2
KY	33	NA	18	27
MI	0	NA	0	0
MN	1	NA	3	1
MO	0	NA	0	0
NE	0	NA	0	0
NC	60	NA	53	NA
OH	5	NA	1	1
PA	0	NA	1	0
SD	0	NA	3	1
TX	58	NA	64	NA
WI	0	NA	0	NA
17 Sts	5	NA	5	NA

These 17 States planted 90% of last year's corn acreage.

Cotton Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
AL	38	23	46	43
AZ	63	39	72	84
AR	7	4	6	16
CA	70	40	42	72
GA	20	13	22	33
LA	28	18	22	33
MS	23	8	11	31
MO	7	2	5	8
NM	51	33	50	55
NC	15	10	23	22
OK	7	3	7	3
SC	20	15	16	31
TN	12	6	6	10
TX	16	13	22	21
14 Sts	22	14	22	28

These 14 States planted 98% of last year's cotton acreage.

Sorghum Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
AR	38	28	58	53
CO	0	0	0	0
IL	0	0	0	0
KS	0	0	3	2
LA	49	45	34	42
MS	48	31	49	58
MO	0	0	3	6
NE	0	0	0	0
NM	0	0	0	0
OK	2	1	5	6
SD	0	0	6	1
TX	44	41	53	58
12 Sts	18	17	23	24

These 12 States planted 99% of last year's sorghum acreage.

Peanuts Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
AL	14	10	18	23
FL	16	15	18	NA
GA	11	7	17	34
NC	2	0	5	9
OK	4	1	13	7
SC	35	22	14	33
TX	4	3	7	5
VA	7	2	12	19
8 Sts	9	6	13	20

These 8 States planted 99% of last year's peanut acreage.

Crop Progress and Condition

Week Ending May 2, 1999

Oats Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
IA	96	92	75	85
MI	77	73	78	56
MN	52	20	80	52
NE	96	87	95	89
ND	15	3	37	11
OH	87	77	81	73
PA	73	51	75	65
SD	54	38	84	44
WI	77	38	79	50
9 Sts	58	39	69	47

These 9 States planted 57% of last year's oat acreage.

Oats Percent Emerged

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
IA	77	NA	24	43
MI	52	NA	37	10
MN	12	NA	31	14
NE	90	NA	44	29
ND	1	NA	5	1
OH	70	NA	57	41
PA	39	NA	41	23
SD	21	NA	41	16
WI	27	NA	19	NA
9 Sts	30	NA	26	NA

These 9 States planted 57% of last year's oat acreage.

Rice Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
AR	50	33	64	61
CA	20	1	1	11
LA	85	80	90	78
MS	74	63	75	81
TX	89	77	91	73
5 Sts	58	44	63	60

These 5 States planted 96% of last year's rice acreage.

Rice Percent Emerged

	MMDD 1999	Prev Week	Prev Year	5-Yr Avg
AR	12	NA	26	22
CA	1	NA	0	1
LA	70	NA	77	65
MS	31	NA	39	50
TX	73	NA	75	50
5 Sts	29	NA	38	32

These 5 States planted 96% of last year's rice acreage.

Barley Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
ID	56	41	68	65
MN	25	4	60	21
MT	58	39	62	44
ND	14	3	36	12
SD	51	37	82	38
WA	88	75	89	74
6 Sts	41	26	56	36

These 6 States planted 83% of last year's barley acreage.

Barley Percent Emerged

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
ID	28	NA	30	35
MN	4	NA	11	3
MT	14	NA	24	10
ND	1	NA	8	2
SD	16	NA	36	13
WA	61	NA	61	51
6 Sts	15	NA	22	14

These 6 States planted 83% of last year's barley acreage.

Spring Wheat Percent Planted

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
ID	79	59	80	78
MN	37	12	66	25
MT	54	25	67	44
ND	25	7	49	16
SD	73	57	86	46
5 Sts	42	21	62	30

These 5 States planted 96% of last year's spring wheat acreage.

Spring Wheat Percent Emerged

	May 2 1999	Prev Week	Prev Year	5-Yr Avg
ID	43	NA	43	49
MN	8	NA	16	5
MT	11	NA	28	10
ND	3	NA	12	3
SD	31	NA	43	17
5 Sts	11	NA	22	9

These 5 States planted 96% of last year's spring wheat acreage.

Winter Wheat Crop Condition by Percent

	VP	P	F	G	EX
AR	0	2	16	55	27
CA	0	0	15	85	0
CO	1	2	10	58	29
GA	7	23	38	30	2
ID	0	2	13	65	20
IL	1	3	17	68	11
IN	0	2	13	62	23
KS	0	3	18	59	20
MI	1	1	13	54	31
MO	1	6	28	55	10
MT	2	6	35	53	4
NE	0	1	13	74	12
NC	0	2	19	64	15
OH	0	0	8	59	33
OK	0	3	17	71	9
OR	5	12	39	41	3
SD	0	0	12	61	27
TX	2	13	33	41	11
WA	4	7	42	45	2
19 Sts	1	5	21	58	15
Prev Wk	2	5	24	55	14
Prev Yr	1	6	23	55	15

VP - Very Poor
P - Poor
F - Fair
G - Good
EX - Excellent

State Agricultural Summaries

These summaries, issued weekly through the summer growing season, provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by NASS State Statistical Offices in cooperation with the National Weather Service. The crop weather reports are also available on the Internet through the NASS Home Page on the World Wide Web at http://www.usda.gov/nass/ or from JAWF at http://www.usda.gov/oce/waob/jawf.

ALABAMA: Topsoil 11% very short, 19% short, 48% adequate, 22% surplus. Much needed rain fell across most of the State. Corn planted 84%, 86% 1998, 86% avg.; emerged 70%, 63% 1998. Cotton planted 38%, 46% 1998, 43% avg. Soybeans planted 6%, 9% 1998, 6% avg. Peanuts planted 14%, 18% 1998, 23% avg. Wheat headed 81%, 82% 1998, 78% avg.; 2% very poor, 6% poor, 17% fair, 59% good, 16% excellent. Pasture feed 7% very poor, 13% poor, 27% fair, 44% good, 9% excellent. Livestock 1% very poor, 3% poor, 19% fair, 59% good, 18% excellent.

ALASKA: Days suitable for fieldwork 4.0. Topsoil 10% short, 80% adequate, 10% surplus. Subsoil 15% short, 60% adequate, 25% surplus. Cool, sunny conditions the early part of the week allowed producers to spread fertilizers, plant early lettuce where conditions permitted. Snowfall in the Tanana Valley, over the Kenai the latter part of the week halted fieldwork in those areas. Daytime high temperatures ranged from the high thirties to low sixties. Lows were mostly in the twenties with a few reported in the teens in the Kenny Lake and Sawmill Creek areas. Progress of farm work, on schedule in the north to 7 to 10 days late in the south. Early season lettuce being planted in Matanuska Valley. Hay supplies 15% short, 85% adequate. However, supply of good quality hay for horses very short.(First report for the year.)

ARIZONA: Pasture conditions continued to decline throughout the State last month. Relatively mild weather has moderated the effects on livestock. Pastures throughout the State were evenly mixed between very poor, poor, fair, good condition. Livestock were reported in fair condition. Both stock water, soil moisture were short. Dry winter is causing ranchers to begin to express concerns for the future. Many ranchers are reporting hauling water. All areas report the need for rain. Insect damage was light. Overall, northern grazing conditions were in poor condition in April. Low elevation pastures were in mainly poor condition while mid elevation pastures were in very poor to poor condition. High elevation pastures were in poor to fair condition. Cattle were reported in poor to fair condition. Stock water supplies and soil moisture were both short. Lack of snow pack is causing concerns for the future. Feed is very short. Most ranchers are supplemental feeding. Insect damage was light. Central area pasture conditions were in good to fair condition. Conditions were good to fair at mid elevation pastures but fair to good at low and high elevations. Livestock conditions were fair and both stock water and soil moisture were short. Ranchers expressed concern about how dry the winter was. Insect damage was light. Southern pasture conditions were mixed with low level pastures being primarily in very poor condition, mid elevation pastures being in fair condition, and high elevation pastures being primarily in good condition. Livestock conditions were fair. Both stock water and soil moisture were short. Mild weather has taken some of the edge off of the dry weather, ranchers are concerned for the future. Several compare this year to 1996. Insect damage was light. Cotton planting is still behind schedule. This compares to 72% 1998, 84% avg. Small grains heading continued to progress last week. As of May 2, 98% of the durum wheat, 100% of other wheat, 98% of the barley, 100% of the other small grains had headed. Alfalfa harvest activity was reported as 57% not being harvested, 3% light, 6% moderate, 34% active. Some fields are being green chopped. Alfalfa condition was reported as 5% poor, 23% fair, 62% good, 10% excellent. Central area producers shipped artichokes, broccoli, cabbage, carrots, cilantro, green onions, kale, leeks, mixed greens, parsley, potatoes, radicchio, romaine, spinach last week. Eastern area producers shipped greenhouse tomatoes. Western producers harvested broccoli, cabbage, celery, dry onions, flowering kale, salad savoy, Swiss chard. Lettuce shipments included Boston, leaf, processing, romaine. Central, western area citrus shipments included grapefruit, lemons, Valencia oranges last week.

ARKANSAS: Days suitable for fieldwork 4. Topsoil 2% short, 72% adequate, 26% surplus. Temperatures slightly below normal, rainfall during the first part of the week with the remainder of the week remaining dry. Cotton 7% planted, Rice 50% planted 12% emerged, Soybeans 7% planted, Corn 87% planted 40%emerged, Sorghum 38% planted, Wheat 91% headed, Oats 79% headed. Livestock are reported in good condition. Main farm activities: Planting of rice, corn, cotton, soybeans, sorghum, fertilizing wheat, harvesting hay. Other activities: Stringing of tomatoes, cultivating watermelons, scouting wheat fields for armyworms, diseases, spraying of pastures for weeds, flushing of rice fields, cleaning poultry houses.

CALIFORNIA: Cool temperatures, strong winds, scattered showers caused minor delays in some field activities. Small grain fields continued to ripen, although warmer temperatures will be necessary for full development of grain heads. Corn planting was active in most growing areas; some second crop corn was planted following winter forage harvest. Cotton planting progressed in the San Joaquin Valley, temporarily delayed by cool temperatures and windy conditions. Some emerged cotton fields were thinned and cultivated, while some Fresno County fields were damaged by wind-blown soil. Old crop sugar beet harvest was in full swing in the Imperial Valley and was winding down in the northern San Joaquin Valley. Ground preparation, cultivation, flooding of rice fields were ongoing in the Sacramento Valley. Rice planting was slowed somewhat by strong winds. Emerging rice fields were sprayed for weeds, water weevils and midge. Seeding of wild rice was complete in the Sacramento Valley. Corn, safflower and new crop sugar beets were thriving despite the cool temperatures. Black eye bean planting was underway in the southern San Joaquin Valley. Alfalfa, small grains, winter forages were cut for hay or green chopped. Vineyard, orchard cultural activities included extensive weed control, irrigation. Fungicides were applied to grapes, stone fruit. Thinning of stone fruit was active. April freeze damage to stone fruit trees was still being evaluated, some fruit was lost. Grape blossoms were developing. Almond growers were applying fungicides, miticides. Olive tree bloom was nearing. Walnut trees were treated for blight. Citrus was picked in southern areas. Strawberry picking in the central valley began, several fields exhibited damage from early April's low temperatures. Planting of processing tomatoes in the Sacramento, San Joaquin valleys was nearly complete. Planting of peppers, sweet potatoes, melons continued in the central valley. Spring lettuce harvest in the San Joaquin Valley began to slow. Garlic was treated for rust. Harvest of sweet corn, onions, carrots continued in the Imperial Valley. Other crops harvested this week were asparagus, broccoli, cabbage, cauliflower, cilantro, spinach, turnips, potatoes, various greens. Rangeland pastures continued in fair to good condition. Strong north winds early in the period caused pastures to dry in central, northern areas. Cooler than normal temperatures late in the period were beneficial to rangeland pastures in some areas. Livestock were in good condition overall. Cattle were being sold or moved to higher elevation pastures. In some areas cattle weight gains were running below normal.

COLORADO: Days suitable for fieldwork 1.6. Topsoil 1% very short, 3% short, 56% adequate, 40% surplus. Subsoil 2% very short, 13% short, 68% adequate, 17% surplus. Whole State received additional moisture from localized heavy rain storms that began 28th night, continued throughout the weekend. Additional moisture has delayed the planting of the late row crops. In some areas of the State fields are under water. Winter wheat 80% jointed, 64% 1998, 44% avg. Spring wheat 70% planted, 60% 1998, 52% avg.; 52% emerged, 31% 1998, 28% avg.; 1% poor, 19% fair, 68% good, 12% excellent. Spring barley 89% seeded, 84% 1998, 73% avg.; 44% emerged, 51% 1998, 45% avg. Oats 90% seeded, 61% 1998, 62% avg.; 60% emerged, 31% 1998, 36% avg.; 3% poor, 34% fair, 55% good, 8% excellent. Dry onions 100% planted, 93% 1998, 90% avg.; 2% very poor, 4% poor, 27% fair, 61% good, 6% excellent. Sugar beets 91% planted, 92% 1998, 95% avg.; 11% up to stand, 0% 1998, 0% avg. Summer potatoes 76% planted, 77% 1998, 75% avg.; 20% emerged, 6% 1998, 2% avg. Fall potatoes 12% planted, 0% 1998, 8% avg. Livestock in mostly fair to good condition.

DELAWARE: Days suitable for fieldwork 6.5. Topsoil 14% short, 86% adequate. Subsoil 4% short, 94% adequate, 2% surplus. Winter wheat 16% fair, 76% good, 8% excellent; 11% headed, 16% 1998, 6% avg. Barley 17% fair, 72% good, 11% excellent; 64% headed, 86% 1998, 69% avg. Field corn 39% planted, 38% 1998, 33% avg.; 10% emerged. Sweet corn 27% planted, 27% 1998, 27% avg. Snap beans 21% planted, 14% 1998, 6% avg. Green peas 90% planted, 81% 1998, 87% avg. Tomatoes 17% planted, 11% 1998, 7% avg. Cantaloupes 5% planted, 24% 1998, 9% avg. Cucumbers 5% planted, 13% 1998, 5% avg. Watermelons 5% planted, 28% 1998, 9% avg. Clover, other hay 1st cutting 5% harvested, 2% 1998, 1% avg. Alfalfa hay 1st cutting 5% harvested, 1% 1998, 1% avg. Apples 89% bloomed, 91% 1998, 71% avg. Strawberries 40% bloomed, 67% 1998, 58% avg. Hay supplies 17% short, 83% adequate. Pasture feed 3% poor, 8% fair, 66% good, 23% excellent. Activities: Cutting, harvesting of haylage, scouting for

diseases in small grains, planting activity well underway due to dry weather.

FLORIDA: Topsoil moisture in Panhandle short to adequate with scattered areas very short moisture. Peninsula moisture very short to short scattered areas of adequate. Warm during first part of week, then cool weather, showers occurred in some areas beginning mid-week for week of 26th through May 2nd. Variable amounts of rain from trace in some places to over 5 inches in other areas were reported. Most all areas of State still need more rain. Maximum temperatures occurred during first part of week and were in low 90s. Low temperatures during latter part of week were in 50s. Tobacco stressed by hot, dry weather. Rain allowed growers to start planting peanuts. Spring planted crop land preparations active where moisture available. Hay growth coming back in areas that received rain. Peanuts planted reported at 16%. Rain in most areas this past week. Amount ranged from heavy to light. Hot weather lowering quality of some crops. Some tomato growers not making third picks due to low market. Major vegetables shipped: snap beans, sweet corn, cucumbers, eggplant, endive, escarole, lettuce, okra, parsley, peppers, pickles, radishes, squash, tomatoes, watermelons. Welcomed rain all citrus areas, more needed. Trees setting next year's crop. Some new growth on well cared for trees. Harvest of Valencias active all areas. Grapefruit movement declining as supplies run low. Temple, Honey tangerine harvest almost over. Caretakers cutting cover crops, spraying. Pasture feed very poor 15%, poor 30%, fair 55%. Cattle very poor 5%, poor 25%, fair 65%, good 5%. Most of State's pasture in poor to fair condition due to drought. Panhandle; pastures greened up following rain. North; fertilization of pastures delayed by dry conditions. Central; pasture condition improved where rain received. West central; pasture condition improved in locations where significant rain fell. Most areas still had drought conditions. Southwest; recent, almost daily rains have helped to improve pasture condition. Condition of cattle, calves continued mostly fair.

GEORGIA: Days suitable for fieldwork 4.8. Soil moisture 21% very short, 34% short, 41% adequate, 4% surplus. Corn 5% very poor, 17% poor, 39% fair, 35% good, 4% excellent. Cotton 5% very poor, 16% poor, 53% fair, 23% good, 3% excellent. Hay 8% very poor, 20% poor, 45% fair, 26% good, 1% excellent. Peanuts 3% very poor, 8% poor, 65% fair, 22% good, 2% excellent. Sorghum 3% very poor, 20% poor, 41% fair, 35% good, 1% excellent; 28% planted, 11% 1998, 23% avg. Tobacco 3% very poor, 15% poor, 47% fair, 32% good, 3% excellent. Wheat 98% boot, 97% 1998, 98% avg. Onions 3% very poor, 10% poor, 16% fair, 64% good, 7% excellent; 33% harvested, 23% 1998, 31% avg. Watermelons 2% very poor, 11% poor, 40% fair, 39% good, 8% excellent; 93% planted, 86% 1998, 92% avg. Apples 3% poor, 22% fair, 73% good, 2% excellent; 87% blooming, 94% 1998, 98% avg. Peaches 10% very poor, 11% poor, 22% fair, 29% good, 28% excellent; 0% harvested, 0% 1998, 2% avg. Despite the rain that occurred last week, low soil moisture conditions remain a concern for much of the State. Scattered rains were sufficient to temporarily improve soil moisture in some areas. Corn planting, emerging were ahead of 1998. Crop condition improved. Wheat condition experienced little change from the previous week. Sorghum condition improved. The lack of soil moisture contributed to peanut, cotton planting lagging behind the five year average. Condition of the both crops improved from the previous week. Onion harvest continued ahead of 1998, and the average with one-third complete. Onion condition improved slightly from the previous week. Watermelon planting was ahead of 1998 pace. Condition increased slightly. Peach crop improved. There were isolated reports of Tomato Spotted Wilt Virus in tobacco last week, condition remained nearly identical to the previous week. Other activities included controlling weeds, the routine care of livestock.

HAWAII: Crops continued to make good progress. Mostly sunny skies, light winds, scattered showers were beneficial for agriculture. Banana plants made good progress. Warm temperatures fostered good plant development. Harvesting will be steady. Papaya orchards were also helped by the favorable weather. Head cabbage were in generally good condition. Reports of insect damage have increased due to the warmer weather. Harvesting will be steady. Plantings of sweet corn, watermelons, cucumbers increased with the advent of warmer weather. Ginger root plantings picked up during the week.

IDAHO: Days suitable for fieldwork 3.6. Topsoil 3% short, 72% adequate, 25% surplus. Rains delay fieldwork in southern areas. Northern areas progress, planting lentils, dry peas, small grains. Hay, roughage 9% short, 51% adequate, 40% surplus. Irrigation supply 71% excellent, 29% good. Dry peas 44% planted, 73% 1998, 41% avg.; 13% emerged, 20% 1998, 19% avg. Dry beans 1%, 0% 1998, 2% avg. Onions 93% emerged, 80% 1998, 78% avg. Oats 43% planted, 61% 1998, 53% avg.; 18% emerged, 28% 1998, 23% avg. Lentils 32% planted, 37% 1998, 26% avg.; emerged 0%, 4% 1998, 10% avg. Corn 29% planted, 46% 1998, 2% avg.; 4% emerged, 0% 1998, 0% avg. Potatoes 27% planted, 32% 1998, 33% avg.; 1% emerged, 0% 1998, 1% avg. Barley 28% emerged, 30% 1998, 35% avg.; 5% jointed. Spring wheat 43% emerged, 43% 1998, 49% avg.; 5% jointed. Sugar beets 87% planted, 90% 1998, 95% avg.; 24% emerged, 39% 1998, 41% avg. Winter wheat 32% jointed; 1% booted. Activities: Planting small grains, potatoes, dry peas, dry beans, lentils, sugar beets, corn, field preparation, cultivating, fertilizing, moving livestock to early pasture.

ILLINOIS: Days suitable for fieldwork 0.9. Topsoil 1% short, 37% adequate, 62% surplus. Wet conditions continue to hamper planting progress. This is the second straight week that farmers have had very little opportunity to plant corn. Emerged corn is yellow due to the cool, wet weather. With around an inch of rain statewide last week, many fields have standing water. Wheat crop is still in good condition. Activities for last week included caring for livestock, hauling grain and manure. Oats planted 93%, 85% 1998, 89% avg. Alfalfa 1% poor, 14% fair, 67% good, 18% excellent. Red clover 3% poor, 21% fair, 63% good, 13% excellent.

INDIANA: Days suitable for fieldwork 1.8. Topsoil 1% short, 49% adequate, 50% surplus. Subsoil 5% short, 63% adequate, 32% surplus. Corn planted 10%, 9% 1998, 23% avg. Soybean planted 4%, 3% 1998, 6% avg. Winter wheat 91% jointed, 95% 1998, 67% avg.; 85% good to excellent. Rain, wet soil conditions hindered field activities most of the week. Some fieldwork occurred later in the week as fields began drying out. Pastures, forage crops continue to improve. Range, pasture 2% poor, 18% fair, 67% good, 13% excellent. Hay supplies mostly adequate. Feedlots muddy. Activities: Tilling soils, spreading fertilizer, pesticides and anhydrous ammonia, picking up seed, hauling manure, moving grain, calving, lambing, preparing equipment, feeding and caring for livestock.

IOWA: Days suitable for fieldwork 1.8. Topsoil moisture short 1%, adequate 56%, surplus 43%. Subsoil moisture, short 1%, adequate 65%, surplus 34%. Cool, rainy early week, warm, sunny late week. Corn planted 14%, 1998 33%, avg 37%. Oats planted 96%, 75% 1998, 85% avg.; emerged 77%, 24% 1998, 43% avg. Winter wheat 4% poor, 16% fair, 64% good, 16% excellent. Fertilizer applied (including fall applications) 85% complete. Seedbed preparation (including fall preparation) 82% complete. Some reports of scours in calves, no major cattle problems. Range, pasture feed 3% poor, 24% fair, 53% good, 20% excellent.

KANSAS: Days suitable for fieldwork 1.1. Topsoil 53% adequate, 47% surplus. Subsoil 3% short, 71% adequate, 26% surplus. Wheat jointing 94%, 93% 1998, 87% avg. Wheat wind damage, 1% moderate, 7% light, 92% no damage. Alfalfa weevils, aphids remain a problem. Insect infestation 3% percent severe, 8% moderate, 14% light, 75% with no infestation. Disease infestation minimal, with a few reports of wheat streak mosaic, barley yellow dwarf, soil borne mosaic, spindle streak mosaic. Nitrogen deficiency continues to show in many wheat fields. Corn planting, 26% complete, 70% 1998, 52% avg. Major activities: Planting corn, seedbed preparation, scouting alfalfa and wheat fields, applying fertilizer and herbicides, spraying for alfalfa weevils. Pasture feed 1 % very poor, 2% poor, 18% fair, 66% good, 13% excellent. Currently, 67% of the roughage requirements for cattle are coming from pasture.

KENTUCKY: Days suitable for fieldwork 2.7. Topsoil 9% short, 69% adequate, 22% surplus. Subsoil 1% very short, 19% short, 73% adequate, 7% surplus. Rainfall slowed corn planting which was on record pace based on the 5 year average. Tobacco plant size in beds 48% less than 2 in., 36% 2 to 4 in., 16% larger than 4 in. Both burley and dark type tobacco have 1% of the acreage set. Winter wheat 2% poor, 19% fair, 54% good, and 25% excellent. About 50% of the winter wheat crop is heading or has headed. Expectations for an excellent alfalfa crop were tempered somewhat because of the need for spraying to control increased alfalfa weevils. Pasture feed 5% poor, 29% fair, 52% good, 14% excellent. Hay 4% poor, 25% fair, 57% good, 14% excellent.

LOUISIANA: Days suitable for fieldwork 6.4. Soil moisture 23% very short, 39% short, 35% adequate, 3% surplus. Corn 3% very poor, 9% poor, 33% fair, 52% good, 3% excellent; 100% emerged, 100% 1998, 96% avg. Cotton 13% emerged, 9% 1998, 17% avg. Cotton planting came to a halt due to the lack of moisture. Hay 29% 1st cutting, 15% 1998, 12% avg. Cattlemen were harvesting hay. Rice 1% poor, 21% fair, 66% good, 12% excellent. Rice conditions improved with the calmer wind conditions. Sorghum 34% emerged, 28% 1998, 31% avg. Soybeans 10% emerged, 15% 1998, 5% avg. Dry conditions affected plowing and land preparation for soybeans. Spring plowing 95% plowing, 96% 1998, 90% avg. Sugarcane 2% very poor, 9% poor, 28% fair, 37% good 24%

excellent. Sweet potatoes 2% planted, 2% 1998, 2% avg. Wheat 1% *very poor 4% poor, 25% fair, 62% good 8% excellent; 98% headed, 100%* 1998, 96% avg.; 50% turning color, 59% 1998, 34% avg. Livestock 5% poor, 33% fair, 53% good, 9% excellent. Vegetables 1% very poor, 10% poor, 36% fair, 46% good, 7% excellent. Pastures continued to show signs of stress due to the lack of rain.

MARYLAND: Days suitable for fieldwork 6.7. Subsoil 1% very short, 12% short, 86% adequate, 1% surplus. Topsoil 1 % very short, 37% short, 60% adequate, 2% surplus. Winter wheat 3% poor, 15% fair, 63% good, 19% excellent; 15% headed, 19% 1998, 13% avg. Barley 2% poor, 16% fair, 60% good, 22% excellent; 66% headed, 91% 1998, 67% avg. Rye 2% poor, 18% fair, 62% good, 18% excellent; 55% headed, 67% 1998, 48% avg. Field corn 34% planted, 38% 1998, 33% avg.; 5% emerged. Sweet corn 40% planted, 32% 1998, 31% avg. Snap beans 25% planted, 9% 1998, 25% avg. Tomatoes 35% planted, 44% 1998, 48% avg. Cucumbers 13% planted, 9% 1998, 22% avg. Cantaloupes 35% planted, 15% 1998, 33% avg. Watermelons 31% planted, 14% 1998, 22% avg. Apples 74% bloomed, 92% 1998, 67% avg. Strawberries 65% bloomed, 64% 1998, 59% avg. Alfalfa 1st cutting 7% harvested, 3% 1998, 1% avg. Pasture feed 3% poor, 15% fair, 67% good, 15% excellent. Hay 1% very short, 25% short, 73% adequate, 1% surplus. Activities: Alfalfa fields are being harvested for haylage, dairy farmers cutting rye, barley for haylage, continued planting activities.

MICHIGAN: Days suitable for fieldwork 6.0. Topsoil 5% very short, 12% short, 73% adequate, 10% surplus. Subsoil 5% very short, 24% short, 64% adequate, 7% surplus. Temperatures warmed, ranging from normal in south to 7° above normal in the eastern Upper Peninsula. Southern half of the Lower Peninsula dried out from rains previous week. Northern areas of State remained dry enough to necessitate fire danger alerts. Growing degree days running well below 1998, below normal across State. Barley 80% planted, 78% 1998, 43% avg.; 53% emerged. Potato 28% planted, 54% 1998, 26% avg. Sugar beets 90% planted, 100% 1998, 44% avg. Sugar beet planting about 90% complete, third straight year that most of the crop has been planted in April. Earliest planted sugar beets were at the two leaf stage. Corn planting underway south, more limited in the central area. Wheat showing signs of moisture stress north. Wheat fields top dressed as conditions allowed. New alfalfa plantings emerged. Established fields generally in good condition. Oat, barley planting neared completion. Asparagus harvest began southwest, west-central regions. Early planted carrots were emerging. Barley cover crops were emerging, providing some protection for young carrots. Celery planting for April on schedule after some minor delays. Planting began in early April. Several mild frosts the past week caused some bud damage to apples, tart cherries, sweet cherries. Tree planting underway. Stone fruits entering bloom. Many apple varieties in the Grand Rapids area have reduced bud set. Apple scab ascospore levels been below normal due to dry conditions last summer, fall, early spring. Peach leaves emerged well where fruit buds were killed by extremely low temperature January 5. The Berrien county peach production in 1999 may have been reduced by that freeze.

MINNESOTA: Days suitable for fieldwork 4.9. Topsoil 2% very short, 10% short, 71% adequate, 17% surplus. Surplus soil moisture dropped, soil temperatures warmed to assist in the rapid progress of spring field activities. Weather during the week was warm, dry allowing planting to progress rapidly. Corn 60% ground prepared, 86% 1998, 50% avg. Soybeans 15% ground prepared, 39% 1998, 15% avg. Potatoes 33% planted, 48% 1998, 21% avg. Sugar beets 63% planted, 91% 1998, 33% avg. Sweet corn 8% planted, 18% 1998, 9% avg. Green peas 29% planted, 52% 1998, 32% avg. Flax 2% planted, 10% 1998, 2% avg. Dry beans 3% planted, 9% 1998, 2% avg. Winter wheat 2% very poor, 13% poor, 27% fair, 54% good, 4% excellent. Alfalfa 3% poor, 27% fair, 59% good, 11% excellent. Rye 1% very poor, 3% poor, 20% fair, 63% good, 13% excellent. Pasture feed 2% very poor, 9% poor, 30% fair, 52% good, 7% excellent.

MISSISSIPPI: Days suitable for fieldwork 4.6. Soil moisture 2% very short, 19% short, 58% adequate, 21% surplus. Corn 96% planted, 84% 1998, 91% avg.; 85% emerged, 76% 1998, 79% avg.; 1% very poor 7% poor, 41% fair, 48% good, 3% excellent. Cotton 23% planted, 11% 1998, 31% avg.; 8% emerged, 4% 1998, 7% avg. Rice 74% planted, 75% 1998, 81% avg.; 31% emerged, 39% 1998, 50% avg.; 1% very poor, 2% poor, 41% fair, 52% good, 4% excellent. Sorghum 48% pianted, 49% 1998, 58% avg.; 18% emerged, 30% 1998, 40% avg.; 1% poor, 42% fair, 55% good, 2% excellent. Soybeans 29% planted, 27% 1998, 25% avg.; 17% emerged, 16% 1998, 14% avg. Watermelons 70% planted, 36% 1998, 70% avg.; 34% fair, 48% good, 18% excellent. Wheat 99% jointing, 99% 1998, 100% avg.; 96% heading, 72% 1998, 86% avg.; 1% very poor, 5% poor, 41% fair, 49% good, 4% excellent. Blueberries 15% fair, 69% good, 16% excellent. Cattle 1% very poor, 7% poor, 22% fair, 59% good, 11% excellent. Pasture feed 1% very poor, 6% poor, 30% fair, 55% good, 8% excellent. Corn planted is nearing completion, wheat jointing is virtually *complete.*

MISSOURI: *Days suitable for fieldwork 1.2. Topsoil 45% adequate,* 55% surplus. Precipitation 1.06 in. Corn 31% planted. Cotton 7% planted. 71% of winter wheat in Bootheel has begun heading, 49% in south central, 13% statewide. Winter wheat 1% very poor, 6% poor, 28% fair, 55% good, 10% excellent. Sorghum planting 4% south central, 1% west central, central, 0% all other districts. Ground worked at least once for spring crops 62%. Pasture feed 2% poor, 20% fair, 59% good, 19% excellent.

MONTANA: Days suitable for fieldwork 3.6. Topsoil 4% very short, 15% short, 71% adequate, 10% surplus. Subsoil 6% very short, 25% short, 66% adequate, 3% surplus. Many areas of the State received much needed precipitation last week which prevented some producers from getting into their fields. However, good progress was made in the seeding of crops. Sugar beets 94% planted, 94% 1998, 67% avg.; 52% emerged, 45% 1998, 18% avg. Oats 33% planted, 39% 1998, 26% avg.; 4% emerged, 11% 1998, 5% avg. Corn 21% planted, 30% 1998, 20% avg.; 5% emerged, 5% 1998, 2% avg. Potatoes 4% planted, 9% 1998, 6% avg. Mild temperatures have resulted in livestock being in good condition as feed supplies remain adequate. Calving, lambing is making good progress as few problems have occurred, death losses are down. Calving 91% completed, 93% 1998, 93% avg. Lambing 72% completed, 81% 1998, 78% avg. Cattle, calves 28% being moved to summer ranges, 25% 1998, 18% avg. Sheep, lambs 22% being moved to summer ranges, 22% 1998, 12% avg.

NEBRASKA: Days suitable for fieldwork 1.8. Topsoil 1% short, 85% adequate, 14% surplus. Subsoil 6% short, 90% adequate, 4% surplus. Temperatures near normals. Cloudy, wet conditions continued to limit row crop planting progress. Wheat 1% poor, 13% fair, 74% good, 12% excellent; 52% jointed, ahead of 27% 1998, 29% avg. Rainfall accumulations during April have been 150-200% of normal in the major wheat growning areas. Corn 14% planted, behind 39% 1998, less than half 29% avg. With soil temperatures still on the cool side, corn emergence was slow. Oats 96% seeded, 95% 1998, 89% avg.; emerged 80%, 44% 1998. Newly seeded alfalfa stands are excellent. Calving near completion. Reporters indicated the extended cloudy, wet conditions were producing scours, health problems in some young calves. Pasture, range feed 1% poor, 20% fair, 66% good, 13% excellent. Producer activities; waiting for soils to dry, hauling grain, applying fertilizer, pre-plant chemicals, livestock care.

NEVADA: Again, temperatures varied greatly throughout the week. Week started out with normal to slightly above normal temperature, that dropped drastically in the mid-week, remained below normal. Majority of pasture, range lands have remained good in spite of the fluctuating temperatures. This may be partly due to the precipitation that fell throughout the State. Rain, snow postponed potato planting. Calving, lambing are wrapping up and much of the livestock in the State are being moved to spring/ summer ranges. Branding, vaccinating of cattle continues. Main farm, ranch activities: Irrigation, spraying, planting, some field preparation, branding, vaccinating, calving, lambing, shearing, movement of livestock to spring/ summer pasture.

NEW ENGLAND: Days suitable for fieldwork 7.0. Topsoil 24% very short, 60% short, 14% adequate, 2% surplus. Subsoil 21% very short, 45% short, 32% adequate, 2% surplus. Pasture feed 4% very poor, 34% poor, 27% fair, 35% good. Maine potatoes <5% planted, <5% 1998; condition fair. Massachusetts potatoes 50% planted, 70% 1998, 30% avg.; condition fair. Rhode Island potatoes 40% planted, 40% 1998, 25% avg.; condition fair. Oats in Maine 30% planted, <5% 1998; condition fair. Barley in Maine 30% planted, <5% 1998; condition fair. Field corn 5% planted, <5% 1998, <5% avg.; condition good to fair. Sweet corn 10% planted, 10% 1998, 10% avg.; <5% emerged, condition fair to good. First cut hay fair to good. Apples bud stage to early bloom; condition good to fair. Peaches full bloom to early bloom; condition fair to good. Pears bud stage to early bloom; condition good to fair. Strawberries bud stage; condition fair to good. Cranberries bud stage, condition good. Highbush blueberries bud stage; condition fair to good. Wild blueberries bud stage; condition fair to good. Dry spring thus far, more rain is needed. Sweet corn was being sown under plastic in southern most States. Major farm activities: Planting vegetables, corn, potatoes; tending livestock, assisting spring calving, performing general maintenance; manure spreading, applying fertilizers.

NEW JERSEY: Days suitable for fieldwork 7. Farmers are irrigating crops to combat the dry soil, fertilizing, spraying pesticides. Soil preparation activities for field crops continues. Spring planting is nearly

complete. Planting of sweet corn continues with the planting of field corn increasing. Potato planting is complete. Farmers are active harvesting asparagus, green onions, kale, leeks, parsley, radishes, spinach, Swiss chard. Limited harvesting of Boston and Bibb lettuce reported. Peach trees are past bloom and moving into the petal fall stage. Apple trees, strawberries and blueberries are in full bloom. To combat frost damage cranberry bogs were drained and sprinkler systems were turned on at night.

NEW MEXICO: Days suitable for fieldwork limited to 5.2 due to rainfall. Another slow moving winter storm entered State last week. It brought heavy precipitation to the eastern part of the State. Accumulated totals for the week reached a high of 4.34 inches in Clayton. Across the State farmers continued with spring planting, irrigating, fertilizing, while ranchers were calving, branding, continuing with supplemental feeding. Corn planting advanced to 44% complete last week. Recent precipitation should help the wheat crop as it continues to head. In southern areas producers finished planting chile. Lettuce growers started harvesting their crop, 27% was in by the end of last week. First cutting of alfalfa was 8% complete. Last week's precipitation improved the topsoil moisture, should help bring life to the State's greening pasture, rangelands. Cattle, sheep were in mostly fair condition.

NEW YORK: Days suitable for fieldwork 6.4. Soil moisture 4% very short, 46% short, 50% adequate. Pasture feed 18% poor, 63% fair, 19% good. Wheat 21% fair, 57% good, 22% excellent. Oats 10% poor, 20% fair, 70% good. Corn 12% planted, 10% 1998, 5% avg. Oats 62% seeded, 67% 1998, 35% avg. Upstate potato planting continued. Long Island potatoes emerging. Vegetable crops need rain. Windy conditions damaged Orange County onions. Replanting required in some fields. Apples in good condition but conditions were dry. Pastures greening up rapidly. Animals being moved to pastures.

NORTH CAROLINA: Days suitable for fieldwork 3.2, compared to 6.4 last week. Soil moisture 9% short, 59% adequate, 32% surplus. Following a full week of planting, field preparation, State growers received some much needed rainfall this week. Cool weather prevailed as a low pressure system pushed across the entire southeast. Slow moving front, with it's counter clockwise rotation, drew moisture from the Atlantic Ocean, dumped heavy rains on some coastal areas. Across the State, soil moisture levels rebounded with the precipitation, currently over 90% of the State's soil moisture is adequate to surplus. Limited gains were made in planting corn, cotton during the week due to the weather, flue-cured tobacco farmers were able to make major strides in settings early in the week, ahead of the five year average. Field preparation for all crops were among the additional activities this week. Harvesting of small grain green chop or silage continued along with first cuttings of hay. Other activities included fertilizing, preparing planting equipment, applying pesticides (pre and post emergence), tending livestock, pasture maintenance.

NORTH DAKOTA: Days suitable for fieldwork 7. Topsoil 15% short, 81% adequate, 4% surplus. Subsoil 5% short, 89% adequate, 6% surplus. Warm, dry weather last week allowed producers to make substantial progress on planting of small grains. Strong winds during the week depleted topsoil moisture supplies. Durum wheat 7% planted, 16% 1998, 6% avg. Canola 10% planted, 28% 1998. Corn 22% planted, 35% 1998, 9% avg. Flaxseed 6% planted, 16% 1998, 3% avg. Potatoes 13% planted, 19% 1998, 5% avg. Soybeans 0% planted, 3% 1998, 1% avg. Sugarbeets 55% planted, 89% 1998, 32% avg. Producers also busy applying anhydrous, lining up spring supplies, cleaning grain, preparing equipment for this year's planting season. Livestock were mostly in good condition as calving and lambing seasons near completion. Calving 89% complete; whereas, lambing was 88% complete. Supplemental feeds were fed to 67% of the sheep, 65% of the cattle. Hay, roughage supplies 1% very short, 10% short, 86% adequate, 3% surplus. Grain, concentrates 1% very short, 3% short, 88% adequate, 8% surplus.

OHIO: Days suitable for fieldwork 3.9. Topsoil 4% short, 73% adequate, 23% surplus. Corn 24% planted, 9% 1998, 27% avg.; 5% emerged, 1% avg. Soybeans 13% planted, 3% 1998, 8% avg. Winter wheat jointed 80% complete, 82% 1998, 43% avg. Oats 87% planted, 81% 1998, 73% avg.; 70% emerged, 57% 1998, 41% avg. Tobacco beds 80% plants up, 85% 1998. Potatoes 56% planted, 30% 1998, 36% avg. Pasture feed 2% poor, 19% fair, 54% good, 25% excellent. Winter wheat 8% fair, 59% good, 33% excellent. Sugar beets 85% planted, 25 days ahead of 1998 and average. Apples 60%, peaches 84% in full bloom. Tobacco beds having plants up increased 12 points to 80% complete, a little behind schedule with 1998. Relatively little rainfall, sunny, warm conditions left soil conditions favorable for groundwork, planting. Soils were too wet to plant during the beginning of the week but dry weather allowed for most of the fieldwork to be done during the last half of the week. Activities included hauling grain; scouting fields; fertilizer, herbicide application; hauling manure; greenhouse work transplanting; laying tile; gathering supplies; clearing fence rows; seeding pastures, hay fields; chopping rye for silage; repairing equipment; planting oats, corn, soybeans. Farmers in the Southeast district are busy planting fresh market tomatoes, sweet corn, preparing beds under plastic for melons. Reporters rate pasture, grass conditions as mostly good to excellent as warm weather has replenished pastures with new growth. Some fields were still a little soft earlier in the week, leaving some livestock confined indoors. Heavy rains of last week has drowned out some low spots. However, conditions are mostly good as some reporters mention that haymaking will begin soon. Livestock conditions are good to excellent with no stress reported as of yet. Calving is starting to taper off with lambing basically finished.

OKLAHOMA: Days suitable for fieldwork 2.6. Subsoil 9% short, 82% adequate, 9% surplus. Topsoil 3% short, 61% adequate, 36% surplus. Rain, cool temperatures slowed wheat growth, aided filling of heads. Soft dough stage slowly moving North. Wheat 6% soft dough, 1% 1998, 4% avg. Oats 91% jointing, 76% 1998, 72% avg.; 65% heading, 45% 1998, 32% avg.; 7% soft dough, 3% 1998, 4% avg. Corn 86% planted, 77% 1998, 62% avg.; 9% up-to-stand, 26% 1998, 32% avg. Sorghum 56% seedbed prepared, 44% 1998, 48% avg. Soybeans 55% seedbed prepared, 61% 1998, 69% avg.; 14% planted, 21% 1998, 20% avg.; 5% up-to-stand, 6% 1998, 7% avg. Peanuts 70% seedbed prepared, 79% 1998, 72% avg. Cotton 83% seedbed prepared, 76% 1998, 73% avg. Alfalfa hay 16% 1st cutting, 36% 1998, 20% avg. Other hay 10% 1st cutting, 6% 1998, 15% avg. Livestock 3% poor, 16% fair, 72% good, 9% excellent. Feeder cattle prices steady to $2 per cwt. lower than preceding week.

OREGON: Days suitable for fieldwork 6.3. Topsoil 6% very short, 21% short, 69% adequate, 4% surplus. Subsoil 24% short, 70% adequate, 6% surplus. Barley planted 73%, 78% 1998, 69% avg. Spring wheat planted 93%, 95% 1998. Winter wheat 5% very poor, 12% poor, 39% fair, 41% good, 3% excellent. Range, pasture feed 11% poor, 32% fair, 52% good, 5% excellent. Activities: Fertilizing, herbicide applications continued on westside. Grass seed fields growing, most grains planted. Hay looks good, need warmer weather to grow. Spring tilling continued. Eastside growers need moisture. Malheur County high winds blew emerged sugarbeets out, prevented herbicide applications, contributed to dry conditions. Planting, fertilizing, fieldwork continued. Northeast Canola in full bloom, aphids in some fall planted crops. Movement of balled, burlapped trees & shrubs, bedding plants of all types to retail outlets very active with warmer weather. Christmas trees being fertilized. Field preparation, seeding of beans, corn for processing continued. Planting of onions, potatoes underway. Northeast reported green peas emerging, potato planting nearing completion. Cool nights slowed crops, delayed planting of vegetable transplants. Wind leveled emerged onions, prevented herbicide applications in Malheur County. Potato seed received in Klamath Basin, seed bed preparation continued. Willamette Valley buds emerging on strawberries, caneberries, hazelnut growers applying EFB sprays. Sweet cherries past peak bloom & apples nearing peak bloom. Rogue River Valley strawberries blooming, pears at petal fall, apples blooming. Grapes leafing out. South coast blueberries continued bloom. Grande Ronde Valley fruit trees starting to bloom. Apples in Milton-Freewater past peak bloom. Livestock condition good. Some cattle turned out on eastern ranges, most still being fed. Continued cold temperatures slowed grass growth, greenup in all areas. Cattle branding continued. Early sheep shearing on south coast.

PENNSYLVANIA: Days suitable for fieldwork 6.1. Soil moisture 3% very short, 19% short, 74% adequate, 4% surplus. Good week for fieldwork. Plowing 66% complete, 69% 1998, 61% avg. Soybeans planted 1% complete, 1% 1998, 1% avg. Potatoes planted 27% complete, 23% 1998, 25% avg. Barley heading or headed, 11% complete, 63% 1998, 20% avg. Oat 3% poor, 26% fair, 64% good, 7% excellent. Alfalfa, alfalfa mixtures stand 1% very poor, 4% poor, 17% fair, 69% good, 9% excellent. Timothy clover stand 2% very poor, 4% poor, 24% fair, 65% good, 5% excellent. Peaches 100% pink, 99% 1998, 72% avg.; 97% full bloom or past, 98% 1998, 53% avg. Cherries 96% pink, 100% 1998, 75% avg.; 89% full bloom or past, 100% 1998, 59% avg. Apples 69% pink, 95% 1998, 59% avg.; 58% full bloom or past, 79% 1998, 36% avg. Activities included: Spring plowing; planting oats, alfalfa, potatoes, soybeans, strawberries, grass, corn; machinery maintenance; fixing fences; hauling manure; spreading fertilizers; caring for livestock; applying pesticides; cutting alfalfa; harvesting rye; spraying fruit trees.

SOUTH CAROLINA: Soil moisture 1% very short, 6% short, 67% adequate, 26% surplus. Barley 55% headed, 74% 1998, 48% avg.; 12% turned color, 9% 1998, 12% avg.; 20% fair, 55% good, 25% excellent. Cantaloupes 91% planted, 88% 1998, 87% avg.; 16% poor, 46% fair, 37% good, 1% excellent. Corn 98% planted, 94% 1998, 97% avg. Cucumbers 89% planted, 73% 1998, 80% avg. Cotton 20% planted,

16% 1998, 31% avg. Hay 45% harvested, 30% 1998, 40% avg. Oats 88% headed, 86% 1998, 87% avg.; 5% poor, 32% fair, 57% good, 6% excellent. Peaches 5% poor, 9% fair, 54% good, 32 % excellent. Rye 80% headed, 90% 1998, 53% avg.; 17% turned color, 19% 1998, 24% avg.; 3% poor, 28% fair, 64% good, 5% excellent. Peanuts 35% planted, 14% 1998, 33% avg. Sorghum 43% planted, 24% 1998, 19% avg. Snapbeans 68% planted, 69% 1998, 69% avg. Tobacco 97% transplanted, 93% 1998, 89% avg. Tomatoes 99% planted, 81%1998, 92% avg. Watermelons 95% planted, 93% 1998, 90% avg. Winter wheat 92% headed, 85% 1998, 88 % avg.; 15% turning color, 16% 1998, 15% avg.; 2% poor, 32% fair, 63% good, 3% excellent.

SOUTH DAKOTA: Days suitable for fieldwork 2.8. Subsoil 1% short, 67% adequate, 32% surplus. Topsoil 3% short, 65% adequate, 32% surplus. Rain showers early in the week slowed fieldwork, corn planting progress for many areas of the State. Barley 19% excellent, 48% good, 32% fair, 1% poor. Oats 19% excellent, 55% good, 26% fair. Spring wheat 18% excellent, 51% good, 30% fair, 1% poor. Winter rye 17% excellent, 65% good, 17% fair, 1% poor. Alfalfa 28% excellent, 57% good, 14% fair, 1% poor. Winter wheat 50% in boot stage, 24% 1998; winter rye 8% in boot, 6% 1998. Cattle 24% excellent, 69% good, and 7% fair. Sheep 30% excellent, 61% good, 9% fair. Calving 80% completed, 83% 1998. Lambing 83% completed, 83% 1998. Cattle moved to pasture 29%. Feed supplies 6% short, 79% adequate, 15% surplus. Stockwater 1% short, 75% adequate, 24% surplus.

TENNESSEE: Days suitable for fieldwork 3. Topsoil 6% short, 68% adequate, 26% surplus. Subsoil 7% short, 79% adequate, 14% surplus. Corn 80% planted, 68% 1998, 73% avg.; 40% emerged, 44% 1998. Tobacco 95% plants up, 96% 1998, 95% avg.; 3% transplanted, 2% 1998, 4% avg. Wheat 72% headed, 79% 1998, 65% avg.; 3% poor, 16% fair, 55% good, 26% excellent. Apples 97% blooming or beyond, 100% 1998, 99% avg. Pasture feed 5% poor, 26% fair, 56% good, 13% excellent. Alfalfa 4% harvested, 2% 1998, 5% avg.; 3% poor, 23% fair, 55% good, 19% excellent. Cattle 4% poor, 23% fair, 61% good, 12% excellent. Showers, thunderstorms affected much of the State last week with heavy rainfall in some locations. This was a welcome sight for many farmers who had reported earlier that hay and pasture land was starting to dry out. Wettest area was west with an average of 3.08 in. rainfall, almost 2.00 in. above normal. Field activities in this part of the State came to a standstill. As a result, farmers could only plant an additional 15% of the intended corn acreage last week. Tobacco growers are also waiting for dry weather before transplanting their crop. Cattle producers are busy tagging their animals to control flies.

TEXAS: Warm, windy conditions at beginnning week gave way to cooler, wet conditions mid week. Fieldwork moved ahead until mid week when rain slowed progress. Added moisture benefitted spring planted crops, ranges, pastures, provided planting moisture on Plains. Cooler temperatures slowed emergence of newly planted crops. Livestock conditions remained good most areas. Additional hay cutting, baling occurred early week as conditions allowed.

Crops: Small grains: Fields in High Plains continued make good progress, additional rain will provide further improvement. More fields had begun to head by late week. Additional fields baled some areas due weak prices. Fields in Blacklands, Central drying down rapidly by mid week. Rust continued a problem some fields. Harvest should begin these areas soon. Harvest increased into more fields South before rain slowed progress. Wheat 1% harvested. Corn planting continued until mid week rain slowed progress. Cooler temperatures late week slowed germination on recently planted fields. Fields in Blacklands continued to grow out from freeze damage. Progress good most week. Producers continued with cultivation activity until mid week central Texas. Fields continued to silk in Coastal Bend, Rio Grande Valley. Upper Coast fields made good progress during week. Corn 79% normal, compared 75% 1998; 2% silked. Cotton wet soils, cool soil temperatures prevented much planting activity in Plains, however additional moisture will help germination as planting begins. Planting continued early week in Blacklands. Planting winding down central with early planted fields off to good start. Fields squaring in Coastal Bend, Rio Grande Valley, showing good progress. Cotton 1% squaring, 2% 1998, 1% avg. Peanuts planting occurred north nentral, however wet conditions limited progress. Early planted fields south nentral made good progress for week. Planting continued as conditions allowed. Rice producers continued to flood fields along Upper Coast, planting also continued as conditions allowed. Emerged fields made good progress. Rice 85% normal, compared 85% 1998. Sorghum planting progress slowed mid week due wet fields Plains. Early planted fields made good growth for week. Fields made good growth, development in Blacklands, Central. Early planted fields in Coastal Bend heading. Later planted fields also made good progress. Fields in Rio Grande Valley, along Upper Coast also made good progress during week. Sorghum 74% normal, compared 69% 1998. Soybeans rainfall benefitted soybeans in Northern Blacklands, Upper Coast as many fields planted by mid week. Wet fields delayed start of planting in Plains. Other Crops: Sunflowers 12% planted, 18% 1998, 9% avg.

Commercial Vegetables: Rio Grande Valley, melons continued to make good progress, harvest underway some fields. Cabbage harvest winding down. Onion harvest beginning to wind down some fields. San Antonio-Winter Garden, onion harvest began additional fields as weather allowed. Watermelons continued good progress. East, additional rainfall benefitted planted crops. High Plains, wet fields kept activity to minimal. Potatoes continued show good emergence. Trans Pecos: chili peppers continued good progress. Greenhouse tomato production remained good. Peaches: Crop development good some early varieties, while many late variety trees did not leaf out properly. Pecans: Zinc spraying continued many groves. Crop set looks good. Emergence of casebearers occurred some South groves, producers will begin their spraying program as numbers increase.

Range and Livestock: Range, pasture conditions showed improvement many areas with additional rainfall. Additional hay cutting occurred early week. Fertilizer, herbicide applications continued early. Livestock conditions remained good most areas. Flies continued cause problems. Livestock coming off of small grain pastures showed good weight gains. Markets remained mostly steady.

UTAH: Days suitable for fieldwork 2. Topsoil 3% short, 76% adequate, 21% surplus. Subsoil 4% short, 67% adequate, 29% surplus. Pasture, range feed 5% poor, 21% fair, 68% good, 6% excellent. Spring wheat 91% planted, 96% 1998, 93% avg.; 72% emerged, 65% 1998, 68% avg. Barley planted 89%, 91% 1998, 90% avg.; 72% emerged, 58% 1998, 65% avg. Oats 65% planted, 55% 1998, 57% avg.; 35% emerged, 25% 1998, 31% avg. Corn 7% planted, 8% 1998, 23% avg. Alfalfa hay 6 in. height (first crop only) , 7 in. 1998, 7 in. avg. Tart cherries full bloom or past 80%, 78% 1998. Pears full bloom or past 92%, 86% 1998. Apples full bloom or past 40%, 64% 1998, 36% avg. Potatoes planted 11%, 6% 1998, 10% avg. Cows, calved 93%, 90% 1998, 92% avg. Cattle 17% fair, 77% good, 6% excellent. Ewes lambed on range 78%, 77% 1998, 74% avg. Sheep sheared on range 89%, 83% 1998, 81% avg. Sheep 4% very poor, 16% fair, 72% good, 8% excellent. Unusually excessive rain kept farmers out of the fields most of the week. Although small grain planting and working the fields has been delayed, farmers are glad to get the moisture. Most counties reported that grains look good to very good.

VIRGINIA: Days suitable for fieldwork 4.6. Topsoil 6% very short, 31% short, 58% adequate, 5% surplus. Subsoil 9% very short, 31% short, 56% adequate, 4% surplus. Temperatures across the Commonwealth 5º below normal this past week. Cool temperatures combined with scattered light rainfall. Pasture feed 1% very poor, 9% poor, 36% fair, 46% good, 8% excellent. Livestock 5% poor, 21% fair, 59% good, 15% excellent. Other hay 1% very poor, 14% poor, 37% fair, 44% good, 4% excellent. Alfalfa hay 3% poor, 25% fair, 56% good, 16% excellent. Corn for Grain 45% planted, 40% 1998, 40% avg. Winter wheat 2% very poor, 5% poor, 25% fair, 54% good, 14% excellent. Barley 2% very poor, 5% poor, 23% fair, 55% good, 15% excellent. Flue cured tobacco 6% planted, 3% 1998, 6% avg. Burley tobacco 3% planted, 0% 1998, 0% avg. Dark fire cured tobacco 1% planted, 0% 1998, 0% avg. Sun cured tobacco 3% planted, 0% 1998, 0% avg. Peanuts 7% planted, 12% 1998, 19% avg. Cotton 39% planted, 19% 1998, 38% avg. All apples 1% poor, 8% fair, 86% good, 5% excellent. Peaches 2% poor, 8% fair, 83% good, 7% excellent. Cool weather has retarded the growth of hay, pastures somewhat. This has caused a few livestock producers to begin pasture rotation earlier than normal or provide supplemental feed. Cool, dry conditions throughout the growing season have also stunted wheat growth in some localities. However, small grains generally appear ahead in maturity. While there has been some appearance of cereal leaf beetles, barley yellow dwarf virus, 70% of small grains rated in fair or better condition. Nearly half of the corn acres have been planted to date. This is slightly ahead 1998, average. Many tobacco producers have begun to transplant their crop. The remaining producers are expected to begin transplanting during the first week of May. Cotton planting is progressing on normal schedule. Peanut planting, however, is slightly behind. Soil temperatures remain too cool for most producers to begin planting. Other activities for the week included transplanting vegetables, continued pruning of fruit trees, preparing land for soybeans, spraying small grains for pests and disease, spreading of manure, poultry litter.

WASHINGTON: Days suitable for fieldwork 6.6. Topsoil 10% very short, 23% short, 67% adequate. Subsoil 4% very short, 21% short, 75% adequate. Winter wheat, dryland 4% very poor, 8% poor, 46% fair, 40% good, 2% excellent; irrigated 100% good. Lack of precipitations has stressed the winter wheat crop, although rain over the weekend was very beneficial for crops. Most of the re-seeding decisions have been made for the window for re-seeding to other crops is almost past. Spring wheat, dryland 3% poor, 87% fair, 10% good; irrigated 100% good. Planted

(Continued to back cover)

International Weather and Crop Summary

April 25 - May 1, 1999

HIGHLIGHTS

FSU-WESTERN: Unseasonably warm, dry weather favored rapid spring grain planting in Russia, Ukraine, Belarus, and the Baltics.

EUROPE: Rain eased drought in Spain, while drier weather helped planting activities in England, France, and Germany.

NORTHWESTERN AFRICA: Unseasonably warm, dry weather hastened winter grain maturation.

AUSTRALIA: Sorghum and cotton harvest progressed.

SOUTH AFRICA: Summer crop harvests and wheat planting were underway following last week's rain.

SOUTHEAST ASIA: Showers boosted moisture supplies for rice across Thailand and northern Vietnam, but slowed grain harvesting in the eastern Philippines.

EASTERN ASIA: In the North China Plain, mostly dry weather stressed reproductive non-irrigated winter wheat.

SOUTH AMERICA: In central Argentina, drier weather eased excessive wetness after early-week heavy rainfall caused flooding.

CANADA: Spring grain and oilseed planting began in the Prairies.

April 1999

MONTHLY DATA FROM SELECTED FOREIGN CITIES CLIMATE PREDICTION CENTER-NCEP-NWS-NOAA

*** DATA NOT AVAILABLE

COUNTRY	CITY	TEMPERATURE (C)						PRECIPITATION (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
NORWAY	OSLO	10	1	17	-4	5	2.6	66	18
SWEDEN	STOCKHOLM	**	**	17	-2	**	***	**	**
FINLAND	HELSINKI	9	2	19	-5	6	2.9	49	12
UKINGDOM	GLASGOW	13	5	21	-3	9	0.8	63	0
	EDINBURGH	12	5	20	-4	8	1.2	38	-3
IRELAND	DUBLIN	13	5	18	-3	9	0.9	67	16
ICELAND	REYKJAVIK	6	0	13	-7	3	0.2	18	-40
DENMARK	COPENHAGEN	12	4	18	-2	8	1.1	27	-11
LUXEMBOR	LUXEMBOURG	13	5	21	0	9	1.5	62	3
SWITZERL	ZURICH	13	6	21	0	9	1.3	105	13
	GENEVA	14	6	23	1	10	1.1	117	52
FRANCE	PARIS/ORLY	15	7	22	0	11	***	90	**
	STRASBOURG	15	6	23	-1	11	1.6	42	-5
	BOURGES	15	6	22	0	11	0.9	80	30
	BORDEAUX	17	9	27	4	13	1.6	99	32
	TOULOUSE	17	8	24	1	12	1.3	71	9
	MARSEILLE	18	10	24	3	14	0.9	55	11
SPAIN	VALLADOLID	18	5	26	0	11	1.3	40	-3
	MADRID	19	7	27	-1	13	0.8	25	-18
	SEVILLE	26	13	32	8	19	2.2	28	-31
PORTUGAL	LISBON	20	12	29	8	16	1.1	34	-16
GERMANY	HAMBURG	14	5	20	-2	10	2.4	29	-22
	BERLIN	15	6	21	0	11	2.0	39	-2
	DUSSELDORF	15	7	22	-1	11	1.1	62	10
	LEIPZIG	14	6	19	-1	10	1.9	43	2
	DRESDEN	14	5	19	-1	9	1.2	42	-5
	STUTTGART	14	5	21	-1	10	0.9	46	-9
	NURNBERG	14	4	21	-1	9	0.9	46	-1
AUSTRIA	VIENNA	16	7	20	1	12	1.8	78	35
	INNSBRUCK	15	5	24	-3	10	1.0	126	65
CZECHREP	PRAGUE	14	4	20	-1	9	1.3	19	-19
POLAND	WARSAW	14	6	20	0	10	2.2	75	42
	LODZ	14	5	19	0	9	2.2	58	8
	KATOWICE	15	5	19	1	10	2.6	42	-12
	PRZEMYSL	15	5	23	-1	10	1.7	125	78
HUNGARY	BUDAPEST	17	8	23	1	13	1.6	45	7
YUGOSLAV	BELGRADE	18	10	25	5	14	1.8	72	12
ROMANIA	BUCHAREST	19	7	25	2	13	1.4	107	63
BULGARIA	SOFIA	17	7	24	0	12	1.1	40	-16
ITALY	MILAN	19	9	24	5	14	2.1	63	-25
	VERONA	18	9	22	3	13	1.2	74	9
	VENICE	17	9	22	5	13	0.9	95	26
	GENOA	17	12	23	8	15	-0.1	41	-45
	ROME	18	9	24	5	14	0.2	65	14
	NAPLES	**	**	18	9	**	***	**	**
GREECE	THESSALONIKA	21	10	27	7	15	0.9	22	-15
	LARISSA	21	7	28	4	14	0.3	30	-1
	ATHENS	21	13	24	8	17	0.4	9	-7
TURKEY	ISTANBUL	18	11	26	5	14	3.6	19	-19
	ANKARA	17	2	25	-2	10	-1.9	18	-8
CYPRUS	LARNACA	23	12	31	8	17	0.6	25	5
ESTONIA	TALLINN	10	3	22	-5	7	3.3	66	32
LITHUANI	KAUNAS	13	5	21	-3	9	3.2	42	1
BELARUS	MINSK	15	6	23	-4	10	4.1	97	55
RUSSIA	KAZAN	11	1	25	-9	6	1.8	9	-26
	MOSCOW	15	5	25	-7	10	3.9	27	-15
	YEKATERINBUR	9	1	23	-12	5	0.8	7	-20
	OMSK	8	-1	21	-9	4	0.1	19	-2
	NOVOSIBIRSK	6	-1	16	-9	2	2.9	26	13
	BARNAUL	8	-1	20	-10	4	0.7	20	-5
	KHABAROVSK	10	-2	24	-13	4	0.0	19	-24
	VLADIVOSTOK	9	2	21	-5	5	0.7	49	-17
	SARATOV	14	6	24	-6	10	3.3	4	-23
	VOLGOGRAD	17	5	25	-7	11	2.2	4	-19
	ASTRAKHAN	18	7	27	-5	12	1.3	19	2
	KRASNODAR	19	8	25	-4	13	1.6	41	-12
	ORENBURG	14	3	26	-11	9	1.6	10	-13
KAZAKHST	TSELINOGRAD	11	0	28	-12	6	0.7	114	92
	KARAGANDA	12	0	22	-12	6	0.5	24	2
GEORGIA	TBILISI	18	8	26	1	13	-0.1	36	-19

Based on Preliminary Reports

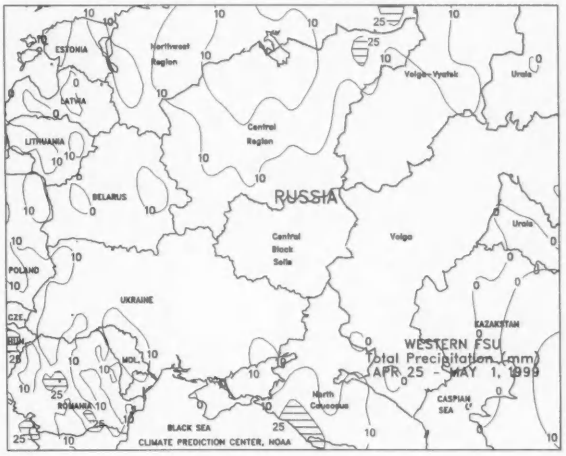
April 1999

COUNTRY	CITY	TEMPERATURE (C)						PRECIPITATION (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DPART F/NRM	TOTAL	DPART F/NRM
UZBEKIST	TASHKENT	20	8	27	-2	14	-1.3	42	-22
TURKMENI	ASHKHABAD	22	11	33	3	16	-0.8	3	-42
SYRIA	DAMASCUS	26	8	32	1	17	0.9	2	-11
ISRAEL	JERUSALEM	21	10	30	4	16	0.1	4	-30
PAKISTAN	KARACHI	36	26	43	23	31	2.4	5	0
INDIA	AMRITSAR	38	21	44	15	29	4.2	1	-24
	NEW DELHI	39	22	43	19	30	1.6	0	-15
	AHMEDABAD	41	24	44	20	32	0.9	0	-2
	INDORE	42	22	43	17	32	2.1	0	-3
	CALCUTTA	37	26	39	22	31	0.5	0	-35
	VERAVAL	31	23	37	21	27	0.4	0	0
	BOMBAY	32	24	37	22	28	0.0	0	0
	POONA	38	21	41	17	30	0.6	0	-12
	BEGAMPET	40	25	42	20	32	1.3	9	-12
	VISHAKHAPATNA	33	28	35	25	30	***	0	**
	MADRAS	36	26	39	23	31	0.1	90	79
	MANGALORE	34	26	35	24	30	0.5	0	-40
HONGKON	KINGS PEAK	27	22	31	17	24	***	170	**
N KOREA	PYONGYANG	17	5	28	-4	11	2.6	24	-39
S KOREA	SEOUL	19	9	28	2	14	3.7	99	31
JAPAN	SAPPORO	11	3	24	-4	7	0.5	35	-29
	NAGOYA	19	10	26	2	15	0.9	104	-48
	TOKYO	19	12	24	5	15	1.2	209	86
	YOKOHAMA	18	12	23	3	15	1.3	221	78
	KYOTO	19	10	25	3	15	0.8	72	-92
	OSAKA	19	11	24	5	15	0.3	61	-77
THAILAND	PHETCHABUN	34	25	40	23	29	-0.8	191	116
	BANGKOK	34	26	36	24	30	-0.2	190	121
MALAYSIA	KUALA LUMPUR	33	25	35	23	29	2.1	72	-201
VIETNAM	HANOI	29	24	35	19	26	2.5	68	-14
CHINA	HARBIN	13	1	29	-8	7	1.3	19	-5
	HAMI	22	7	31	-5	14	1.0	0	-2
	LANCHOW	21	8	32	1	15	2.8	7	-13
	BEIJING	20	9	28	1	14	0.6	34	7
	TIENTSIN	21	9	28	3	15	1.3	22	-3
	LHASA	21	5	25	-1	13	4.5	0	-6
	KUNMING	26	15	30	10	20	4.3	3	-23
	CHENGCHOW	22	12	28	5	17	1.3	40	-8
	YEHCHANG	23	14	31	8	19	1.6	131	36
	HANKOW	22	15	29	11	18	2.5	230	98
	CHUNGKING	22	16	30	11	19	***	145	**
	CHIHKIANG	22	14	32	9	18	2.0	262	98
	WU HU	20	12	27	6	16	***	93	**
	SHANGHAI	19	12	24	7	15	***	73	**
	NANCHANG	21	15	30	10	18	1.3	383	161
	TAIPEI	26	20	31	14	23	2.1	53	-115
	CANTON	28	21	32	13	24	2.5	117	-65
	NANNING	28	21	35	14	25	2.8	56	-48
CANARY I	LAS PALMAS	24	18	28	15	21	1.8	0	-5
MOROCCO	CASABLANCA	20	13	25	11	17	1.3	19	-21
	MARRAKECH	27	13	34	9	20	2.9	1	-39
ALGERIA	ALGER	22	8	29	3	15	0.5	48	-33
	BATNA	22	5	33	-1	14	1.8	18	-10
TUNISIA	TUNIS	23	11	32	7	17	1.6	9	-29
NIGER	NIAMEY	41	28	45	22	34	0.7	5	-1
MALI	TIMBUKTU	40	28	44	18	34	2.9	1	-1
	BAMAKO	38	28	42	23	33	1.0	33	14
MAURITAN	NOUAKCHOTT	30	**	44	13	**	***	1	1
SENEGAL	DAKAR	25	19	28	18	22	0.3	0	0
CHAGOS A	DIEGO GARCIA	**	28	34	23	**	***	34	-148
LIBYA	TRIPOLI	27	13	41	5	20	1.2	1	-16
	BENGHAZI	24	15	37	9	19	0.2	5	-1
EGYPT	CAIRO	28	15	36	12	21	-0.4	0	-2
	ASWAN	**	**	34	15	**	***	**	**
ETHIOPIA	ADDIS ABABA	26	12	29	4	19	1.2	18	-66
KENYA	NAIROBI	26	15	36	12	20	-0.1	113	-44
TANZANIA	DAR ES SALAAM	29	23	32	21	26	-0.4	247	-25
GABON	LIBREVILLE	31	24	33	22	27	0.5	432	85
TOGO	LOME	31	26	34	22	28	0.2	61	-39
BURKINA	OUAGADOUGOU	39	27	43	22	33	0.6	18	-4
COTE D'I	ABIDJAN	32	26	34	22	29	1.0	230	85
MOZAMBIQ	MAPUTO	28	21	35	17	24	0.9	60	6
ZAMBIA	LUSAKA	24	15	29	12	19	-1.3	0	-17
ZIMBABWE	HARARE	24	14	29	10	19	0.7	2	-42
S AFRICA	PRETORIA	26	14	32	9	20	2.3	67	13
	JOHANNESBURG	23	10	26	4	16	1.1	40	-12
	BETHAL	23	9	28	2	16	1.0	19	-19
	DURBAN	28	19	32	15	23	1.5	36	-37
	CAPE TOWN	24	12	37	6	18	1.3	52	14
CANADA	TORONTO	13	3	20	-1	8	2.1	49	-15
	MONTREAL	12	2	20	-3	7	1.2	21	-54
	WINNIPEG	13	0	26	-6	7	3.1	42	5
	REGINA	12	0	23	-7	6	2.0	55	34
	SASKATOON	13	0	23	-6	7	2.6	41	21
	LETHBRIDGE	13	-2	25	-12	5	-0.4	44	8
	CALGARY	12	-2	25	-11	5	0.7	73	48
	EDMONTON	12	1	24	-5	6	1.4	24	2
	VANCOUVER	13	4	20	0	9	-0.1	54	-22
MEXICO	GUADALAJARA	28	13	35	9	20	-1.4	0	-8
	MEXICO CITY	27	16	33	11	21	3.6	1	-13
	ACAPULCO	31	21	34	17	26	-1.2	0	-5
BERMUDA	ST. GEORGES	22	16	26	13	19	-0.2	133	53
BAHAMAS	NASSAU	29	21	32	17	25	1.5	59	7
CUBA	HAVANA	30	22	35	20	26	1.0	79	29
JAMAICA	KINGSTON	31	24	32	21	27	0.6	1	-35
P RICO	SAN JUAN	30	23	34	21	26	0.1	68	-21
GUADELOU	RAIZET	30	23	31	20	26	1.0	78	6
MARTINIQ	LAMENTIN	30	23	32	21	27	1.3	155	36
BARBADOS	BRIDGETOWN	30	24	31	22	27	0.5	80	24
TRINIDAD	PORT OF SPAIN	32	24	34	21	28	1.1	62	26
COLOMBIA	BOGOTA	18	**	23	7	**	***	60	-42
VENEZUEL	CARACAS	29	22	30	21	26	-0.1	51	28
F GUIANA	CAYENNE	30	23	31	22	27	0.5	453	50
BRAZIL	RECIFE	30	23	31	21	27	0.5	98	-228
	BELO	28	19	31	15	23	1.4	56	-7
	FRANCA	26	17	29	6	21	3.9	21	-58
	RIO DE JANEIRO	26	22	32	19	24	-0.1	40	-72
	LONDRINA	28	16	34	4	22	0.1	91	-23
	SANTA MARIA	23	14	31	7	19	-0.1	191	56
	PORTO ALEGRE	23	16	31	9	19	-0.4	128	25
PERU	LIMA	24	18	26	17	21	0.4	0	0
BOLIVIA	LA PAZ	13	3	16	-1	8	-0.5	47	17
CHILE	SANTIAGO	23	7	28	2	15	0.6	9	0
ARGENTIN	IGUAZU	27	17	33	3	22	***	153	**
	FORMOSA	26	18	34	6	22	0.0	1205	1049
	CERES	23	12	33	1	17	-1.9	188	108
	CORDOBA	21	11	29	0	16	-1.3	111	58
	RIO CUARTO	20	11	27	3	15	-1.2	252	205
	ROSARIO	21	11	28	4	16	-0.9	116	4
	BUENOS AIRES	20	11	27	3	16	-0.8	39	-43
	SANTA ROSA	20	8	27	-3	14	-1.3	243	192
	TRES ARROYOS	19	8	24	2	14	-0.7	58	-29
NEW CAL	NOUMEA	28	23	32	20	25	1.5	182	71
FIJI	NAUSORI	31	23	33	21	27	1.6	289	-112
SAMOA	PAGO PAGO	31	25	34	23	28	1.1	197	-110
TAHITI	PAPEETE	31	24	33	23	28	1.0	36	-106
AUSTRALI	DARWIN	31	25	34	20	28	-0.6	202	121
	BRISBANE	24	16	27	8	20	-1.7	80	-24
	PERTH	28	16	34	7	22	2.9	15	-33
	CEDUNA	22	8	31	0	15	-2.7	0	-20
	ADELAIDE	20	10	25	4	15	-2.0	8	-31
	MELBOURNE	18	8	25	1	13	-2.3	6	-44
	WAGGA	20	8	23	0	14	-1.6	76	26
	CANBERRA	18	6	22	-3	12	-1.2	55	2
INDONESI	DJAKARTA	32	24	34	15	28	1.2	0	**
PHILIPPI	MANILA	32	27	35	24	29	0.3	159	134

Based on Preliminary Reports

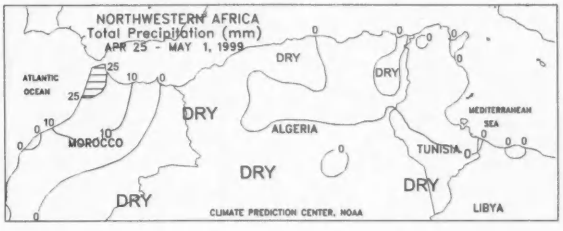
EUROPE

Widespread rain (10-40 mm, with local amounts in excess of 40 mm) fell in Spain and Portugal, easing drought conditions. Although the rain came too late to improve prospects for winter grains, especially in southern areas, it improved prospects for spring-planted crops. Farther north, warmer, drier weather in England, northern France, and most of Germany improved conditions for summer crop planting and favored winter grains in the jointing stage. Light showers (7-30 mm) fell from Poland southward through Hungary into the Balkans. Although the rain in these areas provided abundant moisture conditions for winter grains in the jointing stage, it maintained wet soil conditions, hampering summer crop planting. In Scandinavia, warm, dry weather promoted rapid development of winter grains and favored spring grain planting. Weekly temperatures averaged 1 to 3 degrees C above normal across most of Europe, except in Spain, where temperatures averaged 1 to 2 degrees C below normal.



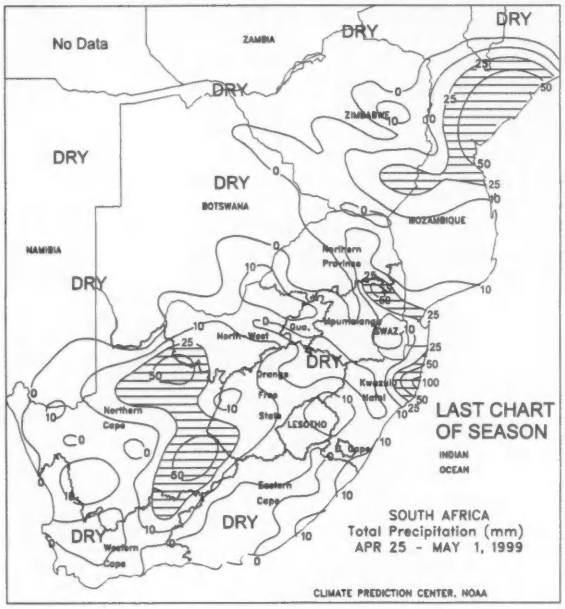
FSU-WESTERN

Weather conditions continued to favor rapid fieldwork during the week. Unseasonably mild weather accompanied several days of dryness in Ukraine, most of Russia, Belarus, and the Baltics, spurring winter grain development and allowing spring grain planting to rapidly progress northward. Furthermore, corn, sunflower, and sugar beet planting is reportedly well underway in Ukraine, southern Russia, and Belarus. Winter grains were likely jointing throughout most areas. Precipitation amounts in most of the region were below 10 mm. Greatest amounts of rain (10-25 mm or more) fell in southwestern Ukraine and parts of Russia (the extreme northern portion of the Central Region and the southern portion of the North Caucasus region). Weekly temperatures averaged 1 to 4 degrees C above normal in Ukraine, southern Russia, Belarus, and the Baltics, and 3 to 6 degrees C above normal in northern Russia. Rain is needed for spring-planted crop emergence and developing winter grains in the northern North Caucasus region, Volga Valley, and the eastern portion of the Central Black Soils region. Dry weather has persisted in these areas for the past 7 weeks, lowering soil moisture.



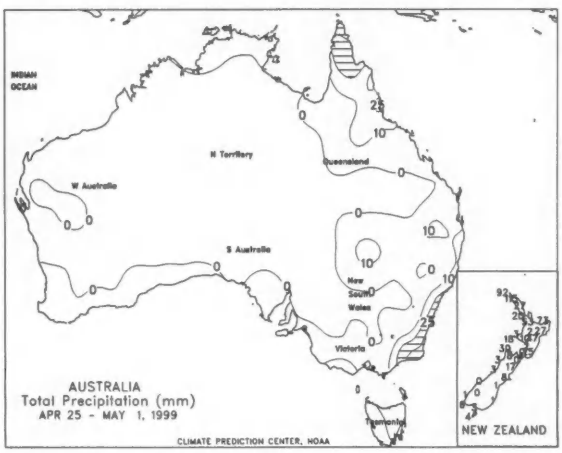
NORTHWESTERN AFRICA

Winter grains ranged from filling to maturing over the region. Scattered showers (3-10 mm) in Morocco arrived too late to improve prospects for winter grains approaching maturity in southern areas. In Algeria and Tunisia, unseasonably warm, dry weather hastened maturity in winter grains. Weekly temperatures averaged near normal in Morocco and 2 to 4 degrees C above normal in Algeria and Tunisia. Typically, the winter grain harvest begins in the region in May and extends through July.



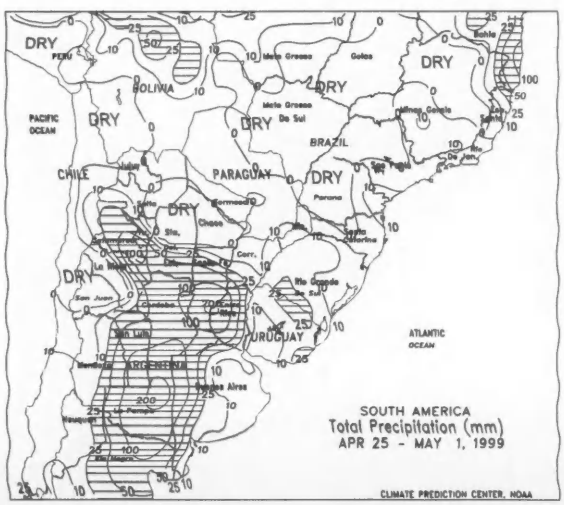
SOUTH AFRICA

Drier weather returned to central and eastern sections of the corn belt, favoring a resumption of summer crop harvesting. Wheat planting was likely underway in response to last week's beneficial rain. Scattered, light showers (25 mm or less) in western corn areas (North West and western Free State) caused minor fieldwork delays. Temperatures averaged 1 to 2 degrees C above normal across the corn belt, favoring summer crop dry down and wheat germination. Farther west, heavier rain (25-50 mm or more) over predominantly irrigated crop lands of Northern Cape boosted moisture levels for winter cropping. Elsewhere, rainfall was generally light (15 mm or less) in coastal sugarcane areas of KwaZulu-Natal, but locally heavy showers (35-115 mm) likely caused isolated coastal flooding. Dry, warm weather covered crop areas of Western and Eastern Cape. Wheat planting was likely underway in primary production areas of Western Cape (the Swartland), following last week's highly beneficial rainfall. (*This is the final summary of the season. Coverage will resume in October as summer crop planting commences.*)



AUSTRALIA

Cool, dry weather continued throughout the east, favoring cotton and sorghum harvesting across New South Wales and Queensland. Temperatures averaged 3 to 6 degrees C below normal, with patchy frost likely in the Darling Downs. Wheat and barley planting was reportedly ahead of schedule across the region. Farther south, cool, mostly dry weather continued across the southeastern grain belt (South Australia, to southern New South Wales). Dry weather also covered Western Australia, but temperatures averaged near to slightly below normal, reducing evaporation rates. In New Zealand, mostly dry weather continued throughout the main pasture and grain areas of South Island. Rainfall was also light over interior crop areas of North Island, although locally heavy rain (50 mm or more) continued in plantation areas north of Auckland.



SOUTH AMERICA

In central Argentina, very heavy showers (100-250 mm) early in the week (April 25-26) caused flooding and possibly crop damage to soybeans in central and southern Santa Fe, southern Cordoba, and northern La Pampa. Lighter amounts (less than 30 mm) fell elsewhere in the main summer crop areas. Dry weather since April 26 eased the wetness and flooding, but more dry weather is needed. Dry weather favored cotton harvesting in the north. According to reports as of April 23, Argentine corn was 46 percent harvested, compared with 44 percent last year, sunflower was 97 percent harvested, compared with 92 percent last year, soybeans were 27 percent harvested, compared with 27 percent last year, and cotton was 24 percent harvested, compared with 15 percent last year. In southern Brazil, mostly dry weather aided soybean harvesting across the country. Temperatures averaged 1 to 3 degrees C above normal across southern Brazil. According to reports as of April 30, Brazilian soybeans were 88 percent harvested, compared with 87 percent last year. Harvesting was 72 percent complete in Rio Grande do Sul, compared to 70 percent last year. In the other major soybean-producing states, harvesting was over 90 percent done.

EASTERN ASIA

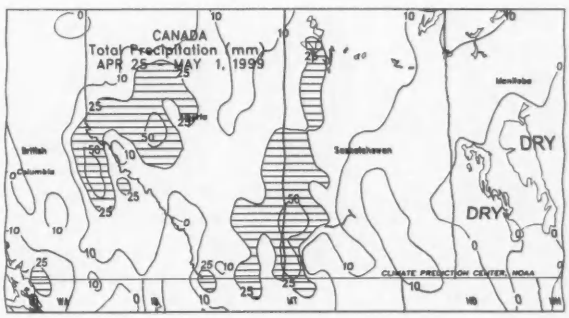
In the North China Plain, mostly dry weather stressed rainfed reproductive winter wheat. In Manchuria, warm, mostly dry weather aided summer crop planting. Temperatures averaged near normal in the North China Plain and 1 to 2 degrees C above normal in Manchuria. In the Yangtze Valley, mostly dry weather (less than 20 mm) favored reproductive to filling winter oilseed and wheat and early-rice development. Light to moderate showers (10-45 mm) increased moisture supplies for rice. Temperatures averaged 2 to 4 degrees C below normal across central and southern China.

SOUTHEAST ASIA

In Thailand, moderate to heavy showers (30-125 mm, with isolated amounts greater than 150 mm) slowed second-season rice harvesting, but boosted moisture supplies for the upcoming main-season rice crop. A tropical depression, which later developed into Typhoon Leo, helped generate very heavy rains (100-500 mm) along the south-central coast of Vietnam, causing flooding. However, this is not a major crop area of Vietnam. In the northern Red River Delta of Vietnam, light to moderate rain (10-40 mm) aided rice. Moderate to heavy showers (25-100 mm) slowed second-crop grain harvesting in the eastern Philippines, with the heaviest amounts exceeding 200 mm in eastern Luzon. Drier weather (less than 15 mm) prevailed across the oil palm areas of peninsular Malaysia. In Java, Indonesia, drier weather (5-25 mm) favored main-season rice harvesting.

CANADA

Spring grain and oilseed planting began across the Prairies. Moderate showers (20-50 mm) boosted topsoil moisture in Alberta and western Saskatchewan. Drier weather (2-18 mm) prevailed across the eastern two-thirds of Saskatchewan. Southern Manitoba remained dry, where moisture is needed for planting. Temperatures averaged 1 to 2 degrees C below normal in Alberta and 3 to 8 degrees C above normal in Saskatchewan and Manitoba.



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(Continued from page 18)

92%, 94% 1998; 63% emerged, 77% 1998. Moisture is also needed for the *spring cereal crops. Cool temperatures also slowed emergence of spring* wheat and barley and caused some growers to re-seed spring wheat. Barley, dryland 1% poor, 90% fair, 9% good; irrigated, 100% good. Planted 88%, *89% 1998; 61% emerged, 61% 1998. Hay, other roughage supplies 5%* short, 80% adequate, 15% surplus. Range, pasture feed 3% very poor, 17% *poor, 43% fair 34% good, 3% excellent. Frost last 27th was damaging to the* yellow mustard, spring canola crops, growers will have to re-seed part of the crop. Apples were still blooming, growers were still concerned about frost *prevention. Minor damage was reported from the cold temperatures in the* fruits. Fruit growers were also thinning, doing some weed control, irrigating. *Sweet corn planting continued, harvests for asparagus, rhubarb, tulip* continued.

WEST VIRGINIA: Days suitable for fieldwork 5.6. Topsoil 3% very short, 32% short, 64% adequate, 1% surplus. Producers took advantage of the *mostly open weather to continue planting, field activities. Wheat 11% poor,* 29% fair, 60% good; Wheat headed 3%, 29% 1998. Hay 7% poor, 38% fair, 49% good, 6% excellent. Intended Acreage Prepared for Spring Planting *80%, 62% 1998, 68% avg. Corn planted 32%, 13% 1998, 25% avg. Oats* 73% planted, 53% 1998, 68% avg.; emerged 33%, 22% 1998, 36% avg. *Soybeans planted 8%, 0% 1998, 4% avg. Tobacco beds seeded 96%, 98%* 1998, 98% avg. Tobacco beds 78% emerged, 58% 1998, 83% avg. Apples 15% fair, 85% good. Peaches 16% fair, 84% good. Cattle 1% poor, 18% *fair, 76% good, 5% excellent; 96% calved. Sheep 2% poor, 22% fair, 71%* good, 5% excellent; 94% lambed. Feed grain 9% short, 88% adequate, 3% *surplus. Hay, roughage 11% short, 82% adequate, 7% surplus. Activities:* Field preparation, planting, calving, lambing, general maintenance.

WISCONSIN: Days suitable for fieldwork 5.0, but the average for the southern districts was 3.5 days or less. Soil moisture 4% very short, 16% *short, 65% adequate, 15% surplus. Spring tillage 1% completed, 58% 1998,* 42% avg. Last week, district temperatures approximately normal in the *southern third of the State, 3 to 6° warmer than normal in the rest of the* State. Half-inch or less of rain fell in the west central, southwest, south central, southeast districts, last week was predominantly rain-free, sunny. Dry *conditions are becoming more prevalent in the northern third of the State,* especially the northeast district. Some northern counties are under a fire danger alert. A lot of dust is being generated as northern farmers work their *fields. One Langlade reporter even stated that many were having to wear* dust masks in order to work. For the rest of the State, the general trend is *that higher, lighter soils are adequate to short in moisture; and the lower,* heavier soils are adequate to wet. Predominance of soils too moist to work increases in a generally southern direction. This is largely due to surplus *moisture remaining from prior weeks, not from precipitation occurring last* week. Farmers across the State took advantage of the predominantly warm, sunny conditions. Corn planting has now started in all areas of the State, *appears to be progressing normally. However, oats planted, spring tillage are* still well ahead of their 5-year averages. Reporters commented that the oats *condition was predominantly good. A few commented that some soybeans* have been planted, most are still waiting for another week or two of nice weather. Potatoes are still being planted, as are peas. Cranberries were *reported to be breaking dormancy, fruit trees continue to bloom. Pasture foed* 2% very poor; 5% poor; 17% fair; 51% good; 25% excellent.

WYOMING: Days suitable for fieldwork 1.6. Topsoil 59% adequate, 41% *surplus. Barley 78% seeded, 78% 1998, 81% avg.; 56% emerged, 46%* 1998, 47% avg. Oats 52% seeded, 45% 1998, 51% avg.; 20% emerged, 12% 1998, 14% avg. Spring wheat 46% seeded, 70% 1998, 51% avg.; 30% *emerged, 27% 1998, 18% avg. Sugar beets 84% planted, 90% 1998, 85%* avg.; 7% emerged, 19% 1998, 17% avg. Winter wheat 9% fair, 59% good, 32% excellent. Spring 91% calving, 91% 1998, 92% avg. Calf losses 24% light, 71% normal, 5% heavy. Farm flock ewes lambed 94%, 99% 1998, 97% avg. Farm flock sheep shorn 89%, 96% 1998, 95% avg. Range flock lambed *34%, 34% 1998, 33% avg. Range flock sheep shorn 65%, 73% 1998, 72%* avg. Lamb losses 8% light, 89% normal, 3% heavy. Cattle 7% fair, 85% good, 8% excellent. Calf 13% fair, 79% good, 8% excellent. Sheep, lamb 10% fair, 86% good, 4% excellent. Range, pasture feed 6% poor, 27% fair, 55% good, 12% excellent. Wet, rainy weather continued to slow fieldwork, *put stress on newborn livestock.*

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